

Research Report
KTC-94-17

**SUMMARY OF RESULTS OF 1993 FIELD
AND LABORATORY EVALUATIONS OF
PAVEMENT MARKING MATERIALS**

VOLUME I. FIELD EVALUATIONS

SASHTO REGIONAL TEST FACILITY

prepared by

Kentucky Transportation Center
University of Kentucky

in cooperation with

Kentucky Transportation Cabinet
Commonwealth of Kentucky

Alabama Highway Department
State of Alabama

and

Louisiana Department of Transportation
State of Louisiana

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INTRODUCTION

This report summarizes the results of data collected as part of the 1993 field and laboratory evaluations of pavement marking materials for the SASHTO Regional Test Facility. The report is divided into two volumes. The first volume presents the field evaluations while the laboratory tests results are given in the second volume. The purpose of the Regional Test Facility (RTF) is to minimize the amount of field and laboratory research testing of specific types of materials. This is accomplished by combining efforts in an organized manner to reduce the monetary and man-hour requirements of both the states and industry. A RTF for the twelve SASHTO states was approved at the 1988 SASHTO convention. The twelve SASHTO states are Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, and West Virginia.

The SASHTO Regional Test Facility (SRTF) began operation in November 1988 when informational packets were mailed to all known manufacturers of four types of materials. One type of material included in the test is classified as striping materials. To be included in the test, the manufacturers have until 5:00 p.m. at the end of the first working day in January to submit a Product Evaluation Form, payment of the testing fee, sample materials, and other pertinent information to the coordinator of the SRTF in order to have their product considered for inclusion in the testing process for that calendar year. A testing fee of \$2,000 per sample was originally established for the striping materials. This fee covered the cost of performing the required field and laboratory tests and reporting the results. This fee was reduced to \$1,500 per sample starting with the 1991 test.

Different states were selected to perform the tests for the various materials. For the striping materials, Kentucky was selected as the lead state which is responsible for reporting the results. Alabama was selected as the support state. Identical field installations were placed in both Kentucky and Alabama in 1989 and 1990. However, beginning in 1991, the field tests began operating on an alternating basis. The materials submitted for testing in 1991 were placed in Kentucky in 1991 and in Alabama in 1992. The materials submitted for testing in 1992 were placed in Alabama in 1992 and Kentucky in 1993. The laboratory tests were performed by Louisiana. The Transportation Center at the University of Kentucky performed the work in Kentucky for the Kentucky Transportation Cabinet. The Alabama Highway Department conducted the field tests in Alabama while the Louisiana Department of Transportation performed the laboratory tests in Louisiana.

This report is the fifth summary of field and laboratory evaluations of pavement marking materials at the SASHTO Regional Test Facility. The previous summaries dealt with the 1989, 1990, 1991 and 1992 evaluations. The data in this report are for a one-year period for materials placed in Kentucky in 1993 and a two-year period for the longer-life materials (such as thermoplastics and nonremovable

tape) placed in Alabama in 1992. The materials placed in Kentucky in 1993 were the materials first submitted and placed in Alabama in 1992 and new materials submitted for 1993.

PROCEDURE

The testing procedures were developed by a task force established by the Standing Committee of the SRTF. The procedures have been periodically reviewed and revised with the latest procedure dated January 1993. The evaluation procedures have been used as the standard for the RTF. Following is a description of the testing procedures used.

SITE LOCATIONS

Field test decks on both Portland cement concrete (PCC) and bituminous concrete (asphalt) surfaces were evaluated. The decks were selected using the guidelines of ASTM D 713. Four-lane divided sections were considered desirable with a minimum average daily traffic (ADT) for the outside lane of 5,000. The field site had to be free-rolling with no grades, curves, or intersections or access points near enough to cause excessive braking or turning movements and had to have good drainage. The wear was to be uniform with full exposure to the sun throughout daylight hours. The surfaces had to be representative of the pavements upon which the traffic marking materials would be applied in practice. Originally, a requirement was that the test deck had to have been open to traffic for at least two years, but this requirement was changed to a minimum of one year.

MATERIALS TESTED

A total of 99 materials were originally submitted for testing in Alabama in 1992 with 93 materials actually placed. In addition, a total of 77 materials from the 1991 submissions were placed in Alabama in 1992. This resulted in a total of 170 materials placed in Alabama in 1992. When divided into specific categories, 128 materials would be classified as a paint, 18 were thermoplastic, 4 were preformed thermoplastic, 12 were a nonremovable tape, and 8 were a removable tape. Of the paints, 18 would be classified as a durable paint. Measurements were taken on the long-life materials for the second year. There was a total of 52 thermoplastics, tapes and durable paints. A listing of the long-life materials placed in Alabama in 1992 for which data was collected the second year is given in Table A1. Each material is assigned a number as shown in Table A1. This reference number is used when reporting the results of the evaluations.

A total of 95 materials from the 1992 submissions were placed in Kentucky in 1993. There were 111 materials submitted and placed for the 1993 test in Kentucky in 1993. A total of 206 materials were placed in Kentucky in 1993. When divided

into specific categories, 128 materials would be classified as a paint, 18 were thermoplastic, 4 were preformed thermoplastic, 12 were a nonremovable tape, and 8 were a removable tape.

A listing of the materials placed in Kentucky in 1993 is given in Table 1. Either a 92 or 93 is contained in the sample number. This number indicates whether the material was originally submitted for the 1992 or 1993 test. If it was originally submitted for the 1992 test, it was placed in Alabama in 1992. If it was first submitted for the 1993 test, its first application was in Kentucky in June 1993. The sample numbers given in Table 1 are used when reporting the results of the evaluations.

INSTALLATION

The test installations have been placed in Alabama in May and Kentucky in June. Starting with the 1991 tests, the application alternated between the two sites. The materials listed in Table 1 were placed in Kentucky in June 1993. The installation included the materials submitted for testing in 1992 and 1993. The 1992 materials were placed in Alabama in May 1992. The long-life materials placed in Alabama in 1992 are listed in Table A1. The 1993 materials placed in Kentucky will be placed again in Alabama in May 1994 along with the 1994 materials. There was no installation in Alabama in 1993.

The test sites in Kentucky were located in the westbound lanes of Interstate 64 near Frankfort. The asphalt installation location was near milepost 50 and had an ADT of about 20,000. The PCC installation location was near milepost 63 and had an ADT of about 19,000. The dates and times of the test stripe installations are given in Table 2. The test decks were placed during the first half of June of 1992. The asphalt pavement had been in place approximately five years while the PCC surface was slightly over 20 years old. There had been no milling on the PCC surface.

Both the asphalt and PCC installations of the long-life materials in Alabama were placed on Interstate 65 near Greenville. The asphalt installation was in the northbound lanes near milepoint 140 and had an ADT northbound of about 9,135. The PCC installation was in the southbound lanes near milepoint 123 and had an ADT of approximately 8,280 southbound. There had been no milling on the PCC surface. The asphalt pavement had been in place approximately three years while the PCC surface was about 20 years old.

All of the striping materials were placed by the manufacturers. In the past, one manufacturer had applied any state paints which were submitted for tests. No state paints were applied in 1993. The manufacturers supplied all the necessary installation equipment. The state of Kentucky supervised the installation and

provided traffic control. Various types of striping materials were included. Both liquid and preformed marking materials were evaluated. Because of the large number of paints that could be submitted for testing, a maximum number of 25 paint samples per manufacturer was established. The specific quantity limits were three colors (white, lead based yellow, and organic yellow), three binder systems (alkyd and/or chlorinated rubber and water base), three no-track times (60 seconds, 90 seconds, and 3 minutes), and no more than three samples made up of combinations of color, binder system, and no-track time.

Each manufacturer supplied one five-gallon container of each type of liquid marking material. The manufacturers were required to supply two one-quart and one one-pint samples of liquid materials and a 20-foot sample of tapes at the test site. These samples were used for laboratory testing. For the paint portion of the study, AASHTO Specification M-247, Type 1 moisture-proof glass beads were used and were supplied by the state. Type 1 beads were also used on thermoplastic. Primers/sealers were also used with some of the thermoplastic and tape materials.

In specific instances, a request could be made to use another glass bead for a specific marking material. Samples of any type of glass bead used were obtained. Following is a summary of the products applied with glass beads provided by the manufacturer rather than with the AASHTO Type I glass beads provided by the Kentucky Highway Department. This would apply to paints and thermoplastic materials.

STR-92-6	Coarse M-247 bead.
STR-92-7	Coarse M-247 bead.
STR-92-8	Coarse M-247 bead.
STR-92-9	Coarse M-247 bead.
STR-92-10	Coarse M-247 bead.
STR-92-11	Coarse M-247 bead.
STR-92-14	Special high-adhesion (Echolux) bead mixed with AASHTO Type II drop-on beads.
STR-92-44	Beads which were part of system.
STR-92-97	Large-diameter bead.
STR-92-98	Special high-adhesion (Echolux) bead mixed with AASHTO Type II drop-on beads.
STR-92-99	Large-diameter bead.
STR-93-14	Glass bead designed to work with water borne, high solids traffic paint.
STR-93-15	Glass bead designed to work with water borne, high solids traffic paint.
STR-93-28	Type I bead with North Carolina gradation.
STR-93-29	Type I bead with North Carolina gradation.
STR-93-32	Type I bead with North Carolina gradation.

STR-93-33	Type I bead with North Carolina gradation.
STR-93-34	Type I bead with North Carolina gradation.
STR-93-35	Type I bead with North Carolina gradation.
STR-93-36	Type I bead with North Carolina gradation.
STR-93-39	Type I bead with North Carolina gradation.
STR-93-40	Type I bead with North Carolina gradation.
STR-93-41	Type I bead with North Carolina gradation.
STR-93-42	Type I bead with Ohio gradation.
STR-93-43	Type I bead with Ohio gradation.
STR-93-58	Ohio gradation
STR-93-59	Ohio gradation
STR-93-70	Coarse M-247 bead.
STR-93-71	Coarse M-247 bead.
STR-93-72	Coarse M-247/Visibe bead.
STR-93-73	Coarse M-247/Visibe bead.
STR-93-74	Coarse M-247/Visibe bead.
STR-93-84	Coarse M-247 bead.
STR-93-85	Coarse M-247 bead.
STR-93-86	Coarse M-247 bead.
STR-93-112	Coarse M-247 bead.
STR-93-113	Coarse M-247 bead.

With the exception of some of the removable tape lines, the test lines were transverse lines approximately 12 feet in length and 4 inches wide placed in the shoulder lane. The only exceptions were six longitudinal lane lines 10 feet in length which were placed for each removable tape. The transverse lines were placed at 8- to 12-inch centers.

For the liquid materials (including the thermoplastic material), four beaded lines were placed for each sample. For the preformed tape, four lines were placed for each sample. For removable tape, six transverse lines and six longitudinal lines were installed for each sample.

Liquid materials were applied at a wet film thickness of 15 plus or minus one mil. Glass beads were to be applied at a rate of six plus or minus 0.5 pound per gallon of paint, unless specifically designated otherwise. Manufacturers were responsible for machine calibration and roofing paper was supplied by the evaluators for calibration purposes. Each manufacturer notified the evaluators when they were ready to commence installation. An unbeaded check stripe was placed on an aluminum panel and weighed for determination of mil thickness. After the mil thickness met the established guidelines, a beaded stripe was placed on the aluminum panel and weighed to check the bead application rate. After the bead application rate met the established guidelines, the test lines were applied. The mil thickness and bead application rate of each liquid sample were recorded (Table 3).

For the thermoplastic material, the manufacturer prepared the material and notified the evaluators when they were prepared to install the test lines. No pre-installation checks of thickness or bead application rate were conducted. The minimum mil thickness for thermoplastic material was to be 60 mils. The average mil thicknesses measured for the various installed thermoplastic materials are given in Table 4.

The preformed tapes (both removable and non-removable) were placed by the manufacturers at the locations indicated by the evaluators. Use of a primer was noted.

Following is a summary of the use of primers, sealers or adhesives for the thermoplastic materials, preformed thermoplastics, and tapes. A type of primer/sealer was used in applying the following products to the PCC test deck:

STR-92-1	STR-93-23	STR-93-38	STR-93-66
STR-92-2	STR-93-24	STR-93-30	STR-93-67
STR-92-3	STR-93-25	STR-93-40	STR-93-68
STR-92-14	STR-93-26	STR-93-41	STR-93-69
STR-92-15	STR-93-27	STR-93-42	STR-93-106
STR-92-16	STR-93-28	STR-93-43	STR-93-107
STR-92-27	STR-93-29	STR-93-44	STR-93-108
STR-92-43	STR-93-30	STR-93-45	STR-93-109
STR-92-63	STR-93-31	STR-93-54	
STR-92-72	STR-93-32	STR-93-55	
STR-92-73	STR-93-33	STR-93-56	
STR-92-74	STR-93-34	STR-93-57	
STR-92-75	STR-93-35	STR-93-58	
STR-92-85	STR-93-36	STR-93-59	
STR-92-86	STR-93-37	STR-93-60	

A type of primer/sealer was used in applying the following products to the asphalt test deck:

STR-92-1	STR-93-26
STR-92-2	STR-93-27
STR-92-3	STR-93-106
STR-92-15	STR-93-107
STR-92-16	STR-93-108
STR-92-85	STR-93-109
STR-92-86	

Samples of each of the primers, sealers, and adhesives used were submitted to Louisiana for testing.

The test decks were divided into several sections. One portion of the test deck was used for checking no-track times. Unbeaded liquid materials and unbeaded thermoplastic material had previously been placed in another section with one unbeaded line for each material. The procedure has been modified eliminating the unbeaded line. Therefore, no data are included relating to unbeaded lines. The beaded liquid material was placed in two other sections. Two sets of two lines each were placed for each material resulting in four beaded lines placed for each material. The same procedure was used for the thermoplastic material. Two sets of two lines each were placed for the nonremovable preformed tape. Separating the four transverse lines into two sets of two lines each was done so that all the lines for one manufacturer would not be placed at one location. The removable tapes were placed in another section of the test deck. Six transverse and six longitudinal lines were placed for each material.

No-track tests were conducted for the liquid materials using the no-track time requested by the manufacturer. These tests were conducted prior to placement of the four beaded test lines. After the specified time, a vehicle was driven over the test line at a speed of approximately 10 mph. The no-track determination was judged at a distance of 50 feet. The results of the no-track tests are given in Table 5. The mil thickness at which each line was placed as well as the relative humidity and air temperature at the time of each no-track test are given in Table 5. The times at which the no-track tests were conducted for each paint are given. These times should agree with the times given in Table 1. This time noted in Table 1 follows the FD code given for the paints for which no-track tests were conducted. For paints placed first in Alabama in 1992 and then in Kentucky in 1993, the no-track times may differ slightly in a few instances.

The air and pavement temperatures as well as the relative humidity were recorded hourly during times of installation. The application temperature was obtained for the liquid material at the time of the no-track time test. The weather conditions during the test stripe installations are shown in Table 6. No paint was applied to damp or wet pavement surfaces. The paint was also not applied at an air temperature below 50 degrees or above 95 degrees Fahrenheit.

FIELD DATA COLLECTION

The Field Testing Procedures are based on ASTM D 713, "Conducting Road Service Tests on Traffic Paint." Field data collection was initially made within a few days of the original installation and then at monthly intervals for an approximate one-year period such that 12 sets of data were collected. The objective is to have the original data collection as soon as possible after application of the material. When possible, data were collected the day of application with all data collected within seven days of application.

The types of data collected at the field installations in Alabama and Kentucky included subjective ratings of the appearance of all the stripes, subjective ratings of the durability of all lines except the removable tapes, reflectivity measurements of each stripe using a Mirolux 12 portable retroreflectometer, and subjective ratings of the removability and discernability of the removable tapes. The measuring geometry for the Mirolux 12 consists of an illumination angle of 86.5 degrees and an observation angle of 1.5 degrees. As for the past evaluations in Kentucky, data concerning the brightness of each stripe were obtained using a colormeter. A Colorgard II Reflectometer was used for the colormeter data. The subjective ratings (durability, appearance, removability, and discernability) were made with a team of three trained raters for each data collection period. Their ratings were averaged resulting in the final score which was reported.

In addition to the monthly data collection for the materials placed on the 1993 test decks in Kentucky, data were collected on four-month intervals for longer-life materials (permanent and nonremovable tapes, thermoplastics, and durable paints) on the 1992 test decks placed in Alabama. Data were collected for 52 long-life materials placed on the 1992 test decks. The same type of data and same procedure were used for the data collection on both test decks.

The subjective appearance rating is the complete impression conveyed when the stripe is viewed at a distance of at least 10 feet before any detailed inspection has been made. It includes a comparison of the color of the surface under consideration with the original color, taking into account changes due to such factors as yellowing, bleeding, darkening, fading, dirt collection, and mold growth. This rating was made without preliminary washing or other modification of the surface of the test lines and a rating of 0 to 10 was made with 10 being the highest rating.

In addition to the subjective appearance rating, those materials which were yellow in color were compared to the PR-1 chart. The ones which did not meet the 33538 Federal Yellow were noted.

The subjective durability rating was obtained by rating both the left and right wheel paths in the transverse line and averaging the ratings. The area covering 9 inches on each side of the mid-point of the wheel path was viewed and the percentage of the stripe remaining (nonexposed substrate) was estimated. Ten percent of this number was the rating assigned. For example, a stripe with no wear would receive a rating of 10 while a stripe with 60 percent of the stripe remaining would receive a rating of a 6.

The Mirolux 12 measurements were taken in the left wheel path and centerline area (center of the lane) of each transverse stripe and in the center of each longitudinal stripe. Reference points were marked on the pavement so the data would be collected at the same points each month. Data were taken for both the

beaded and unbeaded paint and thermoplastic lines as well as for the various tapes. The Mirolux 12 measurements were reported in units of millicandelas per square foot per footcandle (or millicandelas).

The colormeter data were taken in the left wheel path and centerline area of each transverse stripe and in the center of each longitudinal stripe. Data were taken for the paint and thermoplastic lines as well as for the various tapes. The colormeter data are dimensionless with higher numbers representing a brighter line.

During each of the first six monthly inspections, one lateral and one transverse stripe of each removable tape were removed. After six months, all of the removable tape had been removed. The removability of each line was subjectively rated each month when it was removed using a scale of 0 to 10. A 10 rating would be for a line which was easily removable in one complete section while a 0 rating was for a line which was removable in only very small pieces. The ability to discern on the pavement where the removable tape was removed was subjectively rated for each stripe until the point that a particular stripe was removed could not be discerned. A discernable marking is any marking, stain, or discoloration that can be detected on the pavement surface under any light or weather condition after line removal. A 10 rating was for a line which left no discernable markings while a 0 rating was for a line which was completely discernable.

Weather information over the evaluation period is given in Table 7. This information is summarized by month and includes the average temperature, total rainfall, and total snowfall. At the Kentucky test decks, there were 31.7 inches of snow reported during the winter of 1993-94. There was also a couple of ice storms during this time period. More snowplow damage was noted than during the previous four test periods. It was estimated that there were several hundred snowplow passes in the winter of 1993-94.

LABORATORY EVALUATIONS

The evaluations were divided into four categories based on the material tested. These categories were solvent borne traffic paint, water borne traffic paint, thermoplastic material and traffic striping tape.

Certain tests are used for any type of traffic paint. These include tests related to viscosity for consistency, drying time to determine no pick-up condition, solids content by volatile loss, opacity for hiding power and pigment content by low temperature ashing for water borne paint and high speed centrifuge extraction for solvent borne paint. Vehicle quality assurance in solvent borne paint can be obtained by comparing infrared scans on the vehicle portion of the high speed centrifuge extraction. Three other tests relative to water-emulsion paints deal with stability and accelerated weathering. The water resistance is a standard test for a number

of weather related failure characteristics. The stability tests are a means of determining the stability of water-emulsion paints to cycling of hot and cold applications. The tests used for paints include the following (refer to the SASHTO testing procedures when a specific ASTM or federal specification is not listed):

SOLVENT BORNE PAINT

TEST	ASTM OR FEDERAL SPEC.
Viscosity	D 562
No Track Dry Time	D 711
Total Solids	D 2369
Pigment Content	D 2371
Opacity	
Settling Properties	D 869
I.R. Scan on Vehicle	D 2621
Density (lbs./gal.)	D 1475
X-Ray Diffraction	Dried Film Scan

WATER BORNE PAINT

TEST	ASTM SPEC.
Viscosity	D 562
No Track Dry Time	D 711
Total Solids	D 2369
Pigment Content	D 3723
Heat Stability	D 562
Freeze-Thaw Stability	D 562
Water Resistance	
Opacity	
Density (lbs./gal.)	D 1475
Settling Properties	D 869
X-Ray Diffraction	Dried Film Scan

Testing of the thermoplastic material is designed to evaluate the effects of continued and repeated heating of the material as well as its ability to withstand temperature changes and still retain its bond to the substrate to which it is applied. These tests for thermoplastic material included:

TEST	AASHTO TEST METHODS
Specific Gravity	T 250
Bond Strength	

Flowability
 Flowability (Extended Heating)
 Softening Point, Ring and Ball
 Low Temperature Stress Resistance
 Bead Content and Grading

The tapes were tested for internal strength to assure that, when warm, excessive elongations or distortion does not occur. The tests for preformed tapes included:

TEST	ASTM TEST METHOD
Tensile Strength	D 3759
Ultimate Elongation	D 3759
Retroreflectivity	D 4061
Whiteness Index	E 313
Adhesion	D 1000
Surface Friction	E 303
Wear Index	Fed. Test 141 & 6192.1

The laboratory tests were conducted on samples obtained during the installation process. In general, a sample of two quarts and one pint of paint was obtained. A block (weighing about 12 pounds) of thermoplastic material was obtained after the material was melted. An approximate 20-foot section of tape was obtained.

RESULTS

REFLECTIVITY DATA

The reflectivity data obtained with the Mirolux 12 are presented in Tables 8 and 9 for the asphalt and PCC pavements, respectively, at the Kentucky test sites. The data are for all materials except the removable tapes. For each material, the averages of the data taken for the four transverse lines are given. The average measurements in the left wheel path and centerline areas are presented separately. The materials are grouped into several categories based on the type of material and no-track time.

Reflectivity data for long-life striping materials (thermoplastic, nonremovable tape and durable paint) transverse lines placed on the 1992 test deck in Alabama are given in Appendix A. Data were obtained as described in Tables 8 and 9. Data are given in four-month intervals for a two-year period.

For the removable tapes, the reflectivity measurements taken on asphalt and PCC pavements are presented in Tables 10 and 11, respectively. Data are given for the

time period to six months after installation. At this point, all lines were removed. The data for each month represents the stripes remaining that month. The average measurements in the left wheel path and centerline areas of the transverse stripes and the center of the longitudinal stripes are presented separately.

DURABILITY

The durability data for the beaded paint and thermoplastic lines and nonremovable tape lines are given in Tables 12 and 13 for the asphalt and PCC pavements, respectively. For each material, the averages of the ratings for the four transverse lines are given.

Durability data for long-life striping materials (thermoplastic, nonremovable tape and durable paint) transverse lines placed on the 1992 test deck are given in Appendix A. Data are presented as described in Tables 12 and 13. Data are given in four-month intervals over a two-year period.

Durability data were not collected for the removable tapes. No durability problems were experienced with the longitudinal lines for the removable tapes on either the asphalt or PCC pavement. A few of the removable tapes had durability problems for the transverse lines on the asphalt pavement while there were no problems on the PCC pavement. The problem related to some transverse stripes failing to remain on the pavement until they were scheduled to be removed. Some of the durability problem on the asphalt pavement can be seen in Table 10. There were major problems with tapes STR-93-19 and STR-93-20 which resulted in no data for the transverse lines for several months. There were moderate losses for tapes STR-93-16 and STR-93-22. There was minor loss of portions of some transverse lines of tapes STR-93-18 and STR-93-52.

APPEARANCE

The appearance data for the paint and thermoplastic lines and nonremovable tape are given in Tables 14 and 15 for the asphalt and PCC pavements, respectively. For each material, the averages of the ratings for the four transverse lines are given.

Appearance data for the removable tape are given in Tables 16 and 17, respectively. The averages for the transverse and longitudinal tapes remaining for the given month are given as well as an overall average for all the data.

In addition to the subjective appearance rating, those materials which are yellow in color were compared to the PR-1 chart. The ones which did not meet the 33538 Federal Yellow were noted. This comparison was also a subjective type of rating. There were three materials in which there was agreement by the observers that the yellow color was out of the range given on the PR-1 chart. These materials were

STR-92-38, STR-93-6, and STR-93-10.

Appearance data for long-life striping materials (thermoplastic, nonremovable tape and durable paint) transverse lines placed on the 1992 test deck in Alabama are given in Appendix A. Data are presented as described in Tables 14 and 15. Data are given in four-month intervals over a two-month period.

COLORMETER

Colormeter data have been collected only in Kentucky. Colormeter data for the paint and thermoplastic lines and nonremovable tape are given in Tables 18 and 19 for the asphalt and PCC pavements, respectively. For each material, the averages of the ratings for the transverse lines are given. Separate measurements are given for the wheel path and centerline areas.

Colormeter data for the removable tape lines on asphalt and PCC pavements are given in Tables 20 and 21, respectively. For each material, the average of the measurements in the left wheel path and centerline areas of the transverse stripes and the center of the longitudinal stripes are presented. The data for each month represents the stripes remaining that month.

REMOVABILITY

One transverse and one longitudinal removable stripe were removed each month for six months on both pavement types. The removability ratings are presented in Table 22 for the asphalt pavement and Table 23 for the PCC pavement. Ratings are from 0 to 10 with higher ratings for material which was easier to remove. The ratings for the transverse and longitudinal stripe removed each month are given with an average calculated for the ratings over the study period. Data are not given when the stripe that was to be removed in a given month was not in place.

It has been found that the ability of the tapes to be removed was related to temperature with the tapes being harder to remove when the temperature was extremely cold. It was also easier to remove the longitudinal stripes compared to the transverse stripes. The major problem with removal of the transverse stripes was in the wheel paths.

DISCERNABILITY

The discernability of each removable tape stripe which had been removed was rated each month. The discernability ratings are presented in Table 24 for the asphalt pavement and Table 25 for the PCC pavement. The ratings were averaged separately for the transverse and longitudinal lines as a function of the length of time a given stripe had been removed. A 10 rating was for a line which left no discernable

markings. Ratings were not taken for stripes which failed such that the stripes could not be removed as part of the evaluation.

LABORATORY TESTS

A listing of the results of the laboratory tests is given in Volume II. The results for each material type are summarized, and the specific results of the tests for each material are listed.

TABLE 1. STRIPING MATERIALS TESTED (1992)

COMPANY	SAMPLE NUMBER	TYPE*
Advance Traffic Markings	STR-92-1	ATM-400 White Extended Life Tape P
	STR-92-2	ATM-300 Yellow Durable Tape P
	STR-92-3	ATM-300 White Durable Tape P
	STR-92-4	ATM-200 Yellow Tape R
	STR-92-5	ATM-200 White Tape R
Baltimore Paint	STR-92-6	BP-6822 White Polyester Paint
	STR-92-7	BP-6823 Yellow Polyester Paint
	STR-92-8	BP-6824 White Polyester Paint (FD 60)
	STR-92-9	BP-6825 Yellow Polyester Paint (120)
	STR-92-10	BP-6826 White Polyester Paint (FD 60)
	STR-92-11	BP-6827 Yellow Polyester Paint (180)
Kwik-Mark Joint	STR-92-12	Kwik-Mark White **
	STR-92-13	Kwik-Mark Yellow **
Cataphote, Inc.	STR-92-14	Thermo-Quik 701 White Thermoplastic H
	STR-92-44	Yellow Paint MMP LF ***
	STR-92-98	Thermo-Quik 701 Yellow Thermoplastic H
Linear Dynamics	STR-92-15	Plastix Series A-330 Yellow Tape P **
	STR-92-16	Plastix Series A-330 White Tape P **
	STR-92-17	LW-9201KW White Paint LF-A (FD 60)
	STR-92-18	LW-9201LW Yellow Paint LF-A (FD 60)
	STR-92-19	LW-9201MY Yellow Paint L-A (FD 60)
	STR-92-20	LW-9201NY Yellow Paint L-A (FD 60)
	STR-92-21	LW-9201AY Yellow Thermoplastic A
	STR-92-22	LW-9201AW White Thermoplastic A
	STR-92-23	LW-9201OY Yellow Paint LF-A (FD 60)
	STR-92-24	LW-9201DW White Paint LF-ALP (FD 60) ***
	STR-92-25	LW-9201EY Yellow Paint L-ALP (FD 60)
	STR-92-26	LW-9201FY Yellow Paint L-ALP (FD 60)
	STR-92-27	LW-9201GY Yellow Paint L-ALP (FD 60)
	STR-92-28	LW-9201HY Yellow Paint LF-ALP (FD 60)
	STR-92-29	LW-9201TY Yellow Paint LF-ALP (FD 60)
	STR-92-30	LW-9201CW White Paint LF-ALP (FD 60)
	STR-92-31	LW-9202JY Yellow Paint LF-ALP (FD 60)
3M	STR-92-32	A420 Stamark Tape P **

TABLE 1. STRIPING MATERIALS TESTED (1992)

COMPANY	SAMPLE NUMBER	TYPE*
AExcel Corporation	STR-92-33	72W-A047 White Paint LF-ALP (FD 60)
	STR-92-34	72W-A039 Yellow Paint L-ALP (FD 60)
	STR-92-35	72Y-A036 Yellow Paint LF-ALP (FD 60)**
	STR-92-36	75W-D014 White Polyester Paint LF (120)
	STR-92-37	75W-D018 Yellow Polyester Paint L (120)
	STR-92-38	75Y-D016 Yellow Polyester Paint LF (120)
	STR-92-39	12W-D274 White Paint LF-A (FD 60)
	STR-92-40	12Y-D288 Yellow Paint L-A (FD 60)
	STR-92-41	72W-A048 White Paint LF-ALP (FD 60)
	STR-92-42	72Y-A037 Yellow Paint L-ALP (FD 60)
	STR-92-43	72Y-A038 Yellow Paint LF-ALP (FD 60)
Cookson Company	STR-92-45	Yellow Paint L-ALP **
Centerline Industries, Inc.	STR-92-46	CL-2000 White Paint LF-A (FD 60)
	STR-92-47	CL-2001 Yellow Paint L-A (FD 60)
	STR-92-48	CL-2002 White Paint LF-A (FD 60)
	STR-92-49	CL-2003 Yellow Paint L-A (FD 60)
	STR-92-50	CL-2004 White Paint LF-A (FD 60)
	STR-92-51	CL-2005 Yellow Paint L-A (FD 60)
	STR-92-53	CL-2007 Yellow Paint LF-A (FD 60)
	STR-92-54	CL-2008 White Paint LF-ALP (FD 60)
	STR-92-55	CL-2009 Yellow Paint L-ALP (FD 60)
	STR-92-56	CL-2010 White Paint LF-ALP (FD 60)
	STR-92-57	CL-2011 Yellow Paint L-ALP (FD 60)
	STR-92-58	CL-2012 White Paint LF-ALP (FD 60)
	STR-92-59	CL-2013 Yellow Paint L-ALP (FD 60)
	STR-92-60	CL-2015 Yellow Paint LF-ALP (FD 60)
	STR-92-61	CL-2017 Yellow Paint LF-ALP (FD 60)
	STR-92-62	CL-2019 Yellow Paint LF-ALP (FD 60)
Flint Trading	STR-92-63	Premark R30PB White Preformed Thermoplastic H
Morton International	STR-92-64	White Paint Dura-Ln 2000 LF-ALP (FD 60)
	STR-92-65	Yellow Paint Dura-Ln 2000 LF-ALP (FD 60)
	STR-92-66	White Paint Dura-St Type IV LF-MMP
	STR-92-67	Yellow Paint Dura-St Type IV L-MMP
	STR-92-68	White Paint Dura-St Type I LF-MMP
	STR-92-69	Yellow Paint Dura-St Type II L-MMP
	STR-92-70	Yellow Paint Dura-St Type V L-MMP
	STR-92-71	White Paint Dura-St Type V LF-MMP

TABLE 1. STRIPING MATERIALS TESTED (1992)

COMPANY	SAMPLE NUMBER	TYPE*
Swarco Industries	STR-92-72	White Thermoplastic A
	STR-92-73	Yellow Thermoplastic A
	STR-92-74	Yellow Thermoplastic H
	STR-92-75	White Thermoplastic H
Intermak Corporation	STR-92-76	Interplast 2000 White Thermoplastic H****
	STR-92-77	Intermak 5000/4000 Epoxy Paint Yellow **
	STR-92-78	Interplast 2000 Yellow Thermoplastic H****
Safety Coatings, Inc.	STR-92-79	AY-221 Yellow Paint L-ALP (FD 60)
	STR-92-80	AW-220 White Paint LF-ALP (FD 60)
	STR-92-81	LFY-113 Yellow Paint LF-A (FD 60)
	STR-92-82	LFY-201 Yellow Paint LF-ALP (FD 60)
	STR-92-83	LFY-221 Yellow Paint LF-ALP (FD 60)
	STR-92-84	LFY-251 Yellow Paint LF-ALP (FD 60)
Swarco/ Volare Ltd.	STR-92-85	Director Yellow Tape P
	STR-92-86	Director White Tape P
	STR-92-87	Director-2 Yellow Tape R
	STR-92-88	Director-2 White Tape R
P.B. Laminations, Inc.	STR-92-89	Aztec White Tape R
	STR-92-90	Aztec Yellow Tape T
	STR-92-91	Aztec Yellow Tape R
	STR-92-92	Aztec White Tape T
Sun Chemical Corp.	STR-92-93	Sunbrite 75 Yellow Paint LF-ALP**
	STR-92-94	Sunbrite 65 Yellow Paint LF-ALP**
	STR-92-95	Sunbrite 75 Yellow Paint LF-ALP**
	STR-92-96	Sunbrite 65 Yellow Paint LF-ALP**
Poly-Carb, Inc.	STR-92-97	Mark 55.7 Multipolymer System White
	STR-92-99	Mark 55.7 Multipolymer System Yellow

TABLE 1. STRIPING MATERIALS TESTED (1993)

COMPANY	SAMPLE NUMBER	TYPE*
AExcel	STR-93-1	White Paint LF-ALP (FD 60)
	STR-93-2	Yellow Paint L-ALP (FD 60)
	STR-93-3	White Paint LF-A (FD 60)
	STR-93-4	Yellow Paint L-A (FD 60)
	STR-93-5	White Polyester Paint LF (120)
	STR-93-6	Yellow Polyester Paint LF (120)
	STR-93-7	Yellow Polyester Paint L (120)
	STR-93-8	Yellow Paint LF-ALP (FD 60)
Linear Dynamics	STR-93-9	LD-9301A White Paint LF-A (FD 60)
	STR-93-10	LD-9301B Yellow Paint LF-A (FD 60)
	STR-93-11	LD-9301C Yellow Paint L-A (FD 60)
	STR-93-12	LD-9301D White Paint LF-A (FD 60)
	STR-93-13	LD-9301E Yellow Paint L-A (FD 60)
	STR-93-14	LD-9301F White Paint LF-ALP (FD 60)
	STR-93-15	LD-9301G Yellow Paint L-ALP (FD 60)
	STR-93-16	Prismoline TRT Series U-210 White Tape R
	STR-93-17	Prismo Plastix Series A-3310 Yellow Tape P
	STR-93-18	Prismoline TRT Series U-210 Yellow Tape R
	STR-93-19	Prismoline TRT Series T-2512 Yellow Tape R
	STR-93-20	Prismoline TRT Series T-2512 White Tape R
	STR-93-21	Prismoline TRT Series T-2311 Yellow Tape R
	STR-93-22	Prismoline TRT Series U-571 Yellow Tape R
	STR-93-23	Prismo Plastix Series A-3340 White Tape P
	STR-93-24	Prismo Plastix Series A-1350 Yellow Tape P
	STR-93-25	Prismo Plastix Series A-4310 White Tape P
	STR-93-26	Prismo Plastix Series A-3320 White Tape P
	STR-93-27	Prismo Plastix Series A-4320 Yellow Tape P
Pave-Mark	STR-93-28	Y0E-4BX-AT Yellow Thermoplastic LF H
	STR-93-29	Y0E-4BX-AA Yellow Thermoplastic H
	STR-93-30	Y0D-7TX-90 Yellow Preformed Thermoplastic Tape
	STR-93-31	Y0D-8TX-90 Yellow Preformed Thermoplastic Tape
	STR-93-32	W20-4BT-GA White Thermoplastic H
	STR-93-33	Y2D-4BT-GA Yellow Thermoplastic H
	STR-93-34	Y0D-4BT-GA Yellow Thermoplastic LF H
	STR-93-35	W2D-5BX-AB White Thermoplastic A
	STR-93-36	Y2D-5BX-AB Yellow Thermoplastic A
	STR-93-37	W3D-8TX-90 White Preformed Thermoplastic Tape
	STR-93-38	W3D-7TX-90 White Preformed Thermoplastic Tape
	STR-93-39	Y0E-5BX-AA Yellow Thermoplastic LF A

TABLE 1. STRIPING MATERIALS TESTED (1993)

COMPANY	SAMPLE NUMBER	TYPE*
Pave-Mark (cont)	STR-93-40	Y0E-5BX-AT Yellow Thermoplastic LF A
	STR-93-41	AASHTO White Thermoplastic A
	STR-93-42	PT-260 Yellow Thermoplastic A
	STR-93-43	PT-260 White Thermoplastic A
Brite-Line	STR-93-44	White Thermoplastic H
	STR-93-45	Yellow Thermoplastic H
	STR-93-46	Yellow Thermoplastic A
	STR-93-47	White Thermoplastic A
	STR-93-48	Yellow Series 1000 Tape P
	STR-93-49	White Series 1000 Tape P
	STR-93-50	White Series 100 Tape R
	STR-93-51	Yellow Series 100 Tape R
	STR-93-52	White Series 200 Tape R
	STR-93-53	Yellow Series 200 Tape R
Flint Trading, Inc.	STR-93-54	Model R-30PBA White Preformed Thermoplastic H
	STR-93-55	Model R-20ST White Preformed Thermoplastic H
Swarco	STR-93-56	White Visa-Line Engineer Grade Tape T
	STR-93-57	Yellow Visa-Line Engineer Grade Tape LF T
	STR-93-58	White Thermoplastic A
	STR-93-59	Yellow Thermoplastic A
	STR-93-60	Yellow Thermoplastic LF H
Poly-Carb.	STR-93-61	Mark 55.7 Multipolymer System**
Flex-O-Lite	STR-93-62	FOL-400 Yellow Tape R
	STR-93-63	FOL-400 White Tape R
	STR-93-64	FOL-310 Yellow Tape LF T
Cataphote	STR-93-65	Yellow Paint MMP****
	STR-93-66	White Thermoplastic H
	STR-93-67	Yellow Thermoplastic H
	STR-93-68	Yellow Thermoplastic LF A
	STR-93-69	White Thermoplastic A

TABLE 1. STRIPING MATERIALS TESTED (1993)

COMPANY	SAMPLE NUMBER	TYPE
Baltimore Paint	STR-93-70	BP-9107 White Polyester Paint (90)
	STR-93-71	BP-9108 Yellow Polyester Paint (120)
	STR-93-72	BP-9109 Yellow Polyester Paint LF (FD 60)
	STR-93-73	BP-9110 White Polyester Paint (120)
	STR-93-74	BP-9111 Yellow Polyester Paint (180)
	STR-93-75	BP-9113 White Paint LF-A (FD 60)
	STR-93-76	BP-9114 Yellow Paint L-A (FD 60)
	STR-93-77	BP-9115 White Paint LF-A (FD 60)
	STR-93-78	BP-9116 Yellow Paint L-A (FD 60)
	STR-93-79	BP-9117 White Paint LF-A (FD 60)
	STR-93-80	BP-9118 Yellow Paint L-A (FD 60)
	STR-93-81	BP-9119 White Paint LF-ALP (FD 60)
	STR-93-82	BP-9120 Yellow Paint L-ALP (FD 60)
	STR-93-83	BP-9121 Yellow Paint LF-ALP (FD 60)
	STR-93-84	BP-9122 White Paint LF-ALP (FD 60)
	STR-93-85	BP-9123 Yellow Paint L-ALP (FD 60)
	STR-93-86	BP-9124 Yellow Paint LF-ALP (FD 60)
	STR-93-87	BP-9125 White Paint LF-ALP (FD 60)
	STR-93-88	BP-9126 Yellow Paint L-ALP (FD 60)
	STR-93-89	BP-9127 Yellow Paint LF-ALP (FD 60)
	STR-93-112	BP-6802 Yellow Paint L-A (FD 60)
	STR-93-113	BP-6801 White Paint LF-A (FD 60)
Safety Coatings	STR-93-90	LFY-207 Yellow Paint LF-ALP (FD 60)
	STR-93-91	AY-207 Yellow Paint L-ALP (FD 60)
	STR-93-92	AW-206 White Paint LF-ALP (FD 60)
	STR-93-93	LFY-77 Yellow Paint LF-A (FD 60)
	STR-93-94	TY-77 Yellow Paint L-A (FD 60)
	STR-93-95	TW-76 White Paint LF-A (FD 60)
Centerline Industries	STR-93-96	CL-3011 Yellow Paint LF-ALP (FD 60)
	STR-93-97	CL-3006 White Paint LF-ALP (FD 60)
	STR-93-98	CL-3003 Yellow L-A (FD 60)
	STR-93-99	CL-3002 White LF-A (FD 60)
	STR-93-100	CL-3001 Yellow L-A (FD 60)
	STR-93-101	CL-3000 White LF-A (FD 60)
	STR-93-102	CL-3009 Yellow LF-ALP (FD 60)
	STR-93-103	CL-3004 White LF-ALP (FD 60)
	STR-93-104	CL-3005 Yellow L-ALP (FD 60)
	STR-93-105	CL-3007 Yellow L-ALP (FD 60)

TABLE 1. STRIPING MATERIALS TESTED (1993)

COMPANY	SAMPLE NUMBER	TYPE*
3M	STR-93-106	Stamark Series A380 White Tape P
	STR-93-107	Stamark Series A380 Yellow Tape P
	STR-93-108	Stamark Series 440 White Tape P
	STR-93-109	Stamark Series A421 Yellow Tape P
	STR-93-110	Scotch-lane Series 611 Yellow Tape R
	STR-93-111	Scotch-lane Series 145 Black Tape R

- * L - Leaded
 LF - Lead Free
 A - Alkyd
 ALP - Acrylic Latex Polymer (Water Based)
 FD - Fast Dry (Number in parenthesis gives times, in seconds, for no-track test)
 H - Hydrocarbon
 P - Permanent
 R - Removable
 PM - Polymethyl methacrylate
 T - Temporary Marking Tape
 MMP - Methyl Methacrylate Polymer
- ** Not applied in Kentucky in 1993.
 *** Applied on PCC only.
 **** Applied on Asphalt only.

TABLE 2. TEST STRIPE INSTALLATION INFORMATION (KENTUCKY)

SAMPLE NUMBER	ASPHALT DECK		CONCRETE DECK		SAMPLE NUMBER	ASPHALT DECK		CONCRETE DECK	
	DATE	TIME	DATE	TIME		DATE	TIME	DATE	TIME
STR-92-1	6/2/92	10:08a	6/2/92	3:36p	STR-92-50	6/10/92	11:18a	6/10/92	12:34p
STR-92-2	6/2/92	10:08a	6/2/92	3:33p	STR-92-51	6/14/92	11:21a	6/14/92	11:47a
STR-92-3	6/2/92	10:08a	6/2/92	3:32p	STR-92-53	6/14/92	11:47a	6/15/92	11:10a
STR-92-4	6/3/92	11:03a	6/2/92	1:54p	STR-92-54	6/14/92	2:11p	6/15/92	12:59p
STR-92-5	6/3/92	11:24a	6/2/92	2:39p	STR-92-55	6/16/92	9:41a	6/17/92	9:30a
STR-92-6	6/14/92	10:44a	6/7/92	12:14p	STR-92-56	6/14/92	2:37p	6/15/92	1:18p
STR-92-7	6/14/92	4:01p	6/10/92	9:13a	STR-92-57	6/16/92	10:03a	6/17/92	9:52a
STR-92-8	6/14/92	11:13a	6/7/92	1:09p	STR-92-58	6/14/92	3:02p	6/15/92	1:40p
STR-92-9	6/14/92	3:01p	6/10/92	10:45a	STR-92-59	6/16/92	10:29a	6/17/92	10:09a
STR-92-10	6/14/92	11:02a	6/7/92	2:16p	STR-92-60	6/16/92	10:57a	6/17/92	10:31a
STR-92-11	6/14/92	3:02p	6/10/92	10:08a	STR-92-61	6/16/92	11:22a	6/17/92	10:55a
STR-92-12	*	*	*	*	STR-92-62	6/16/92	11:52a	6/17/92	11:21a
STR-92-13	*	*	*	*	STR-92-63	6/2/92	9:34a	6/2/92	1:25p
STR-92-14	6/11/92	10:03a	6/10/92	10:08a	STR-92-64	6/14/92	3:07p	6/15/92	12:55p
STR-92-15	*	*	*	*	STR-92-65	6/14/92	2:08p	6/15/92	1:13p
STR-92-16	*	*	*	*	STR-92-66	6/14/92	10:20a	6/15/92	10:21a
STR-92-17	6/9/92	10:07a	6/10/92	11:19a	STR-92-67	6/14/92	11:45a	6/15/92	11:07a
STR-92-18	6/16/92	10:40a	6/10/92	10:36a	STR-92-68	6/14/92	11:00a	6/15/92	10:32a
STR-92-19	6/14/92	1:32p	6/10/92	1:28p	STR-92-69	6/14/92	12:20p	6/15/92	11:27a
STR-92-20	6/14/92	1:03p	6/10/92	12:42p	STR-92-70	6/14/92	11:20a	6/15/92	10:47a
STR-92-21	6/16/92	1:03p	6/15/92	12:00p	STR-92-71	6/14/92	11:30a	6/15/92	10:01a
STR-92-22	6/16/92	10:24a	6/10/92	1:44p	STR-92-72	6/7/92	1:00p	6/7/92	2:42p
STR-92-23	6/14/92	10:46a	6/10/92	12:01p	STR-92-73	6/8/92	10:00a	6/8/92	12:13p
STR-92-24	*	*	6/8/92	9:52a	STR-92-74	6/7/92	12:55p	6/7/92	2:26p
STR-92-25	6/16/92	2:50p	6/8/92	12:46p	STR-92-75	6/16/92	11:53a	6/7/92	1:57p
STR-92-26	6/16/92	3:06p	6/8/92	1:17p	STR-92-76	6/16/92	11:53a	*	*
STR-92-27	6/16/92	2:31p	6/8/92	12:19p	STR-92-77	*	*	*	*
STR-92-28	6/16/92	1:03p	6/8/92	10:33a	STR-92-78	6/16/92	1:08p	*	*
STR-92-29	6/16/92	2:11p	6/8/92	11:44a	STR-92-79	6/3/92	11:37a	6/2/92	12:49p
STR-92-30	*	*	6/7/92	3:46p	STR-92-80	6/3/92	10:53a	6/2/92	12:01p
STR-92-31	6/16/92	1:40p	6/8/92	12:40p	STR-92-81	6/3/92	10:13a	6/2/92	11:09a
STR-92-32	*	*	*	*	STR-92-82	6/3/92	11:56a	6/2/92	1:18p
STR-92-33	6/14/92	1:53p	6/15/92	9:34a	STR-92-83	6/3/92	12:18p	6/2/92	1:43p
STR-92-34	6/16/92	9:58p	6/15/92	11:26a	STR-92-84	6/3/92	12:39p	6/2/92	2:08p
STR-92-35	*	*	*	*	STR-92-85	6/8/92	10:00a	6/7/92	3:49p
STR-92-36	6/14/92	12:27p	6/15/92	10:26a	STR-92-86	6/8/92	10:00a	6/7/92	3:53p
STR-92-37	6/14/92	2:22p	6/15/92	12:04p	STR-92-87	6/8/92	11:30a	6/8/92	1:45p
STR-92-38	6/14/92	3:17p	6/15/92	12:28p	STR-92-88	6/8/92	11:20a	6/8/92	1:40p
STR-92-39	6/14/92	10:22a	6/7/92	9:21a	STR-92-89	6/8/92	8:00a	6/7/92	10:28a
STR-92-40	6/14/92	11:53a	6/17/92	10:00a	STR-92-90	6/7/92	8:30a	6/7/92	9:55a
STR-92-41	6/14/92	2:24p	6/15/92	10:17a	STR-92-91	6/7/92	8:00a	6/7/92	10:11a
STR-92-42	6/16/92	10:24a	6/15/92	12:34a	STR-92-92	6/7/92	8:30a	6/7/92	9:57a
STR-92-43	6/16/92	10:53a	6/15/92	1:09p	STR-92-93	*	*	*	*
STR-92-44	*	*	6/8/92	11:20a	STR-92-94	*	*	*	*
STR-92-45	*	*	*	*	STR-92-95	*	*	*	*
STR-92-46	6/11/92	9:58a	6/10/92	11:12a	STR-92-96	*	*	*	*
STR-92-47	6/14/92	10:06a	6/15/92	9:49a	STR-92-97	6/3/92	9:00a	6/2/92	10:33a
STR-92-48	6/11/92	10:30a	6/10/92	11:54a	STR-92-98	6/11/92	9:30a	6/16/92	1:20p
STR-92-49	6/14/92	10:45a	6/15/92	10:23a	STR-92-99	6/2/92	2:00p	6/2/92	11:18a

* Not applied

TABLE 2. TEST STRIPE INSTALLATION INFORMATION (KENTUCKY) (continued)

SAMPLE NUMBER	ASPHALT DECK		CONCRETE DECK		SAMPLE NUMBER	ASPHALT DECK		CONCRETE DECK	
	DATE	TIME	DATE	TIME		DATE	TIME	DATE	TIME
STR-93-1	6/14/93	3:09p	6/15/93	10:53a	STR-93-58	6/7/93	12:04p	6/7/93	3:26p
STR-93-2	6/16/93	11:19a	6/15/93	1:44p	STR-93-59	6/7/93	12:30p	6/8/93	12:25p
STR-93-3	6/14/93	11:16a	6/17/93	9:41a	STR-93-60	6/7/93	12:08p	6/8/93	1:45p
STR-93-4	6/14/93	12:30a	6/17/93	10:24a	STR-93-61				
STR-93-5	6/14/93	1:37p	6/15/93	11:24a	STR-93-62	6/2/93	10:20a	6/2/93	12:03p
STR-93-6	6/16/93	9:50a	6/15/93	12:57p	STR-93-63	6/7/93	9:45a6	6/2/93	11:42a
STR-93-7	6/16/93	10:33a	6/15/93	1:34p	STR-93-64	6/14/93	1:00p	6/2/93	11:29a
STR-93-8	6/16/93	11:45a	6/15/93	2:12p	STR-93-65	6/11/93	12:30p		
STR-93-9	6/16/93	9:39a	6/15/93	2:41p	STR-93-66	6/9/93	10:23a	6/7/93	2:51p
STR-93-10	6/14/93	10:05a	6/10/93	3:26p	STR-93-67	6/8/93	3:00p	6/7/93	1:14p
STR-93-11	6/14/93	2:04p	6/10/93	2:28p	STR-93-68	6/8/93	2:30p	6/7/93	10:38a
STR-93-12	6/16/93	4:08p	6/10/93	10:01a	STR-93-69	6/11/93	12:30p	6/7/93	3:46p
STR-93-13	6/14/93	3:25p	6/10/93	2:58p	STR-93-70	6/14/93	12:36p	6/7/93	4:01p
STR-93-14	6/16/93	2:00p	6/7/93	1:48p	STR-93-71	6/14/93	2:27p	6/8/93	12:55p
STR-93-15	6/16/93	9:00a	6/8/93	1:54p	STR-93-72	6/14/93	1:50p	6/8/93	11:33a
STR-93-16	6/16/93	2:00p	6/15/93	1:00p	STR-93-73	6/14/93	1:13p	6/8/93	10:32a
STR-93-17	6/16/93	9:00a	6/15/93	11:00a	STR-93-74	6/9/93	9:54a	6/8/93	3:38p
STR-93-18	6/16/93	2:00p	6/15/93	1:00p	STR-93-75	6/11/93	9:53a	6/7/93	12:01p
STR-93-19	6/16/93	2:30p	6/15/93	1:00p	STR-93-76	6/11/93	1:57p	6/8/93	10:17a
STR-93-20	6/16/93	2:00p	6/15/93	1:00p	STR-93-77	6/11/93	10:21a	6/7/93	12:39p
STR-93-21	6/16/93	11:30a	6/15/93	1:00p	STR-93-78	6/11/93	1:28p	6/8/93	9:49a
STR-93-22	6/16/93	11:00a	6/15/93	1:00p	STR-93-79	6/11/93	11:12a	6/7/93	2:09p
STR-93-23	6/16/93	9:20a	6/15/93	10:30a	STR-93-80	6/11/93	12:48p	6/8/93	9:09a
STR-93-24	6/16/93	9:40a	6/15/93	10:00a	STR-93-81	6/11/93	11:56a	6/8/93	11:37a
STR-93-25	6/16/93	12:00p	6/15/93	10:00a	STR-93-82	6/11/93	1:31p	6/10/93	12:12p
STR-93-26	6/16/93	11:00a	6/15/93	10:30a	STR-93-83	6/14/93	9:08a	6/10/93	1:23p
STR-93-27	6/16/93	12:00p	6/15/93	10:00a	STR-93-84	6/11/93	10:56a	6/10/93	2:40p
STR-93-28	6/14/93	11:18a	6/10/93	11:00a	STR-93-85	6/11/93	9:26a	6/10/93	3:20p
STR-93-29	6/14/93	12:00p	6/9/93	10:20a	STR-93-86	6/11/93	10:01a	6/10/93	3:00p
STR-93-30	6/14/93	12:30p	6/9/93	10:00a	STR-93-87	6/11/93	12:35p	6/8/93	12:26p
STR-93-31	6/14/93	1:00p	6/9/93	10:23a	STR-93-88	6/14/93	9:32a6	6/8/93	2:00p
STR-93-32	6/14/93	1:30p	6/8/93	1:33p	STR-93-89	6/11/93	1:00p6	6/10/93	12:48p
STR-93-33	6/7/93	2:00p	6/9/93	9:40a	STR-93-90	6/3/93	12:57p	6/2/93	2:33p
STR-93-34	6/14/93	2:30p	6/8/93	3:10p	STR-93-91	6/13/93	1:17p	6/2/93	2:48p
STR-93-35	6/14/93	9:30a	6/8/93	1:08p	STR-93-92	6/3/93	11:11a	6/2/93	12:23p
STR-93-36	6/14/93	9:00a	6/8/93	12:25p	STR-93-93	6/3/93	9:52a	6/2/93	10:46a
STR-93-37	6/14/93	12:00p	6/9/93	9:48a	STR-93-94	6/3/93	9:33a	6/2/93	10:23a
STR-93-38	6/14/93	12:00p	6/9/93	10:09a	STR-93-95	6/3/93	9:10a	6/2/93	9:49a
STR-93-39	6/14/93	12:30p	6/10/93	12:52p	STR-93-96	6/16/93	12:22p	6/17/93	11:42a
STR-93-40	6/14/93	2:00p	6/8/93	11:35a	STR-93-97	6/16/93	2:24p	6/15/93	2:14p
STR-93-41	6/7/93	4:00p	6/8/93	11:05a	STR-93-98	6/14/93	12:41p	6/15/93	11:59a
STR-93-42	6/7/93	1:30p	6/10/93	11:50a	STR-93-99	6/11/93	12:05p	6/10/93	1:55p
STR-93-43	6/7/93	1:30p	6/10/93	1:00p	STR-93-100	6/14/93	12:15p	6/15/93	11:32a
STR-93-44	6/8/93	2:30p	6/10/93	12:13p	STR-93-101	6/11/93	11:42a	6/10/93	1:08p
STR-93-45	6/7/93	3:30p	6/8/93	10:05a	STR-93-102	6/16/93	12:36p	6/17/93	12:04p
STR-93-46	6/7/93	2:00p	6/15/93	2:45p	STR-93-103	6/14/93	3:27p	6/15/93	2:37p
STR-93-47	6/7/93	1:00p	6/8/93	1:13p	STR-93-104	6/16/93	1:10p	6/17/93	12:51p
STR-93-48	6/8/93	2:00p	6/7/93	2:22p	STR-93-105	6/16/93	1:36p	6/17/93	12:29p
STR-93-49	6/8/93	2:00p	6/7/93	2:40p	STR-93-106	6/8/93	10:00a	6/7/93	12:38p
STR-93-50	6/9/93	8:30a	6/8/93	10:15a	STR-93-107	6/8/93	10:00a	6/7/93	12:50p
STR-93-51	6/9/93	8:40a	6/8/93	11:20a	STR-93-108	6/8/93	10:00a	6/7/93	12:53p
STR-93-52	6/9/93	8:30a	6/8/93	12:05p	STR-93-109	6/8/93	10:00a	6/7/93	12:51p
STR-93-53	6/9/93	8:30a	6/8/93	12:40p	STR-93-110	6/10/93	10:00a	6/10/93	11:00a
STR-93-54	6/2/93	10:00a	6/2/93	12:55p	STR-93-111	6/8/93	10:30a	6/7/93	1:36p
STR-93-55	6/2/93	10:15a	6/2/93	1:00p	STR-93-112	6/11/93	12:21p	6/7/93	3:35p
STR-93-56	6/8/93	10:00a	6/7/93	4:05p	STR-91-113	6/11/93	11:49a	6/7/93	2:45p
STR-93-57	6/8/93	10:00a	6/7/93	4:08p					

* Not applied.

TABLE 3. TRAFFIC PAINT THICKNESS AND BEAD APPLICATION RATE (KENTUCKY 1993)

SAMPLE NUMBER	THICKNESS (MILS)		BEAD APPLICATION (LBS/GAL)		SAMPLE NUMBER	THICKNESS (MILS)		BEAD APPLICATION (LBS/GAL)	
	ASPHALT	CONCRETE	ASPHALT	CONCRETE		ASPHALT	CONCRETE	ASPHALT	CONCRETE
STR-92-6	14.2	15.7	5.9	6.4	STR-93-1	15.0	15.7	6.5	5.5
STR-92-7	14.0	14.6	6.0	5.6	STR-93-2	14.0	14.7	6.5	5.7
STR-92-8	15.0	14.4	6.2	6.4	STR-93-3	14.3	13.1	6.5	5.5
STR-92-9	14.0	15.0	5.5	6.0	STR-93-4	15.1	15.3	6.5	6.4
STR-92-10	14.6	14.4	5.8	6.8	STR-93-5	15.3	14.3	6.5	6.5
STR-92-11	14.6	16.6	5.9	6.0	STR-93-6	14.3	14.1	8.0	5.5
STR-92-17	15.7	14.1	5.6	6.5	STR-93-7	14.1	14.3	6.4	6.5
STR-92-18	15.8	14.6	6.4	6.3	STR-93-8	14.5	15.7	5.7	6.5
STR-92-19	15.0	14.0	6.0	6.4	STR-93-9	15.4	15.1	5.6	6.2
STR-92-20	16.0	14.1	5.6	6.5	STR-93-10	14.5	14.2	6.5	6.0
STR-92-23	16.0	14.0	6.0	6.5	STR-93-11	15.7	13.4	5.8	6.1
STR-92-24	*	14.3	*	6.4	STR-93-12	14.9	14.7	6.4	5.8
STR-92-25	15.1	14.9	6.5	6.0	STR-93-13	16.0	15.1	6.6	6.0
STR-92-26	14.3	14.8	6.5	6.3	STR-93-14	15.6	14.5	6.5	6.5
STR-92-27	15.0	14.8	6.4	6.4	STR-93-15	14.5	14.2	5.5	6.2
STR-92-28	15.7	14.5	6.4	6.1	STR-93-70	14.3	14.8	6.3	6.3
STR-92-29	15.3	14.8	6.2	6.1	STR-93-71	15.4	16.0	6.1	5.7
STR-92-30	*	14.8	*	6.4	STR-93-72	15.2	14.8	5.8	5.5
STR-92-31	15.3	15.2	6.4	6.1	STR-93-73	15.8	14.8	6.3	6.0
STR-92-33	14.0	14.3	6.1	5.9	STR-93-74	14.2	15.6	6.3	6.4
STR-92-34	14.8	14.5	5.5	6.5	STR-93-75	14.6	14.1	6.5	6.4
STR-92-36	15.4	14.1	5.9	6.5	STR-93-76	14.7	14.0	5.8	6.3
STR-92-37	15.5	14.0	5.4	6.1	STR-93-77	14.3	14.8	6.2	6.4
STR-92-38	14.0	15.0	6.2	6.5	STR-93-78	14.2	14.5	6.2	6.5
STR-92-39	14.8	12.9	6.4	6.5	STR-93-79	14.3	14.3	6.3	6.5
STR-92-40	15.9	14.2	6.5	6.1	STR-93-80	15.8	14.1	6.0	6.3
STR-92-41	15.1	14.0	6.3	6.2	STR-93-81	14.6	14.1	5.6	6.2
STR-92-42	15.3	15.0	6.0	5.8	STR-93-82	14.4	14.3	5.9	6.5
STR-92-43	15.2	14.2	6.1	5.8	STR-93-83	14.7	15.0	6.4	6.3
STR-92-46	15.2	14.0	5.8	5.5	STR-93-84	14.7	14.0	5.9	6.5
STR-92-47	14.2	15.0	6.2	5.5	STR-93-85	14.2	15.5	5.6	5.9
STR-92-48	15.0	15.6	6.2	5.8	STR-93-86	15.8	15.3	5.6	6.5
STR-92-49	14.0	14.0	6.4	6.0	STR-93-87	13.9	14.7	5.8	5.8
STR-92-50	14.3	14.4	5.5	5.5	STR-93-88	16.2	15.4	5.5	6.0
STR-92-51	14.0	15.7	6.5	6.2	STR-93-89	14.7	16.0	5.6	6.1
STR-92-53	14.0	14.6	6.4	5.5	STR-93-90	15.9	15.5	6.5	5.7
STR-92-54	14.3	14.2	6.1	5.8	STR-93-91	14.1	15.3	5.6	6.4
STR-92-55	15.5	14.9	6.0	6.0	STR-93-92	14.9	14.2	6.5	6.4
STR-92-56	14.2	14.3	6.3	6.4	STR-93-93	14.3	15.0	6.4	5.9
STR-92-57	14.3	14.8	6.4	6.2	STR-93-94	15.8	14.3	6.2	6.0
STR-92-58	14.2	14.1	6.0	6.5	STR-93-95	15.0	14.7	6.4	5.8
STR-92-59	14.0	14.0	5.5	6.5	STR-93-96	14.6	14.0	5.6	6.2
STR-92-60	14.0	14.0	6.5	5.5	STR-93-97	15.0	14.2	5.5	6.5
STR-92-61	14.0	13.9	6.2	5.5	STR-93-98	14.1	14.0	6.3	6.5
STR-92-62	15.3	14.2	6.5	5.9	STR-93-99	15.0	14.8	5.6	6.5
STR-92-64	14.9	14.2	5.5	6.1	STR-93-100	14.9	14.0	6.4	6.5
STR-92-65	14.1	13.7	5.7	6.5	STR-93-101	14.0	14.7	5.8	5.6
STR-92-79	14.9	14.1	6.5	5.9	STR-93-102	14.0	15.9	6.0	6.0
STR-92-80	15.7	15.8	6.5	6.3	STR-93-103	14.4	14.0	6.1	5.5
STR-92-81	15.8	14.0	5.8	6.0	STR-93-104	14.2	15.0	5.7	6.1
STR-92-82	14.6	15.3	6.3	6.2	STR-93-105	13.4	15.5	6.5	6.5
STR-92-83	14.3	15.3	6.5	6.0	STR-93-112	14.1	15.0	6.0	5.5
STR-92-84	15.1	16.0	6.3	5.9	STR-93-113	14.5	14.7	6.4	6.3

* Not applied.

TABLE 4. AVERAGE THERMOPLASTIC THICKNESS (MILS) (KENTUCKY 1993)

SAMPLE NUMBER	CONCRETE	ASPHALT
STR-92-14	46	36
STR-92-21	152	*
STR-92-22	145	137
STR-92-66	99	98
STR-92-67	90	89
STR-92-68	91	102
STR-92-69	87	109
STR-92-70	86	114
STR-92-71	96	83
STR-92-72	81	83
STR-92-73	82	75
STR-92-74	85	85
STR-92-75	78	83
STR-92-76	*	97
STR-92-78	*	91
STR-92-97	82	66
STR-92-98	45	49
STR-92-99	75	58
STR-92-21	*	106
STR-93-28	95	112
STR-93-29	122	148
STR-93-32	36	28
STR-93-33	34	32
STR-93-34	37	35
STR-93-35S	112	*
STR-93-36S	104	*
STR-93-35U	114	*
STR-93-36U	105	*
STR-93-35	*	112
STR-93-36	*	99
STR-93-39	109	116
STR-93-40	105	111
STR-93-41	106	100
STR-93-42	119	110
STR-93-43	114	122
STR-93-44	100	76
STR-93-45	85	92
STR-93-46	92	82
STR-93-47	100	78
STR-93-58	83	87
STR-93-59	84	78
STR-93-60	84	82
STR-93-66	108	101
STR-93-67	99	94
STR-93-68	116	92
STR-93-69	102	117

* Not applied.

TABLE 5. RESULTS OF NO-TRACK TESTS (KENTUCKY '93)

SAMPLE NUMBER	RESULTS				THICKNESS (mil)		RELATIVE HUMIDITY (%)		AIR TEMP (° F)	
	TIME (SEC)	PCC	TIME (SEC)	ASPH	PCC	ASPH	PCC	ASPH	PCC	ASPH
STR-92-8	60	NT	60	NT	15.0	14.4	60	54	86	90
STR-92-9	120	NT	60	NT	14.0	15.0	69	51	82	93
STR-92-10	60	NT	90	NT	14.6	14.4	55	53	88	90
STR-92-11	180	NT	60	NT	14.6	16.6	68	51	81	94
STR-92-17	60	NT	60	NT	15.7	14.1	41	54	86	79
STR-92-18	60	T	60	NT	15.8	14.6	68	58	81	77
STR-92-19	60	NT	60	NT	15.0	14.0	55	48	91	93
STR-92-20	60	NT	60	NT	16.0	14.1	58	47	87	93
STR-92-23	60	NT	60	NT	16.0	14.0	61	49	84	80
STR-92-24	60	NT	*	*	*	*	66	*	79	*
STR-92-25	60	NT	60	NT	15.1	14.9	57	45	87	84
STR-92-26	60	NT	60	NT	14.3	14.8	57	45	88	84
STR-92-27	60	NT	60	NT	15.0	14.8	57	44	86	83
STR-92-28	60	NT	60	NT	15.7	14.5	63	40	82	86
STR-92-29	60	NT	60	NT	15.3	14.8	58	44	85	82
STR-92-30	60	NT	*	*	*	14.8	50	*	93	*
STR-92-31	60	NT	60	NT	15.3	15.2	60	42	84	84
STR-92-33	60	NT	60	NT	14.0	14.3	73	49	72	92
STR-92-34	60	NT	60	NT	14.8	14.5	52	60	81	75
STR-92-36	120	NT	120	NT	15.4	14.1	64	51	75	91
STR-92-37	120	NT	120	NT	15.5	14.0	50	50	82	91
STR-92-38	120	NT	120	NT	14.0	15.0	50	51	82	93
STR-92-39	60	NT	60	NT	14.8	12.9	58	59	78	85
STR-92-40	60	NT	60	NT	15.9	14.2	56	52	81	90
STR-92-41	60	NT	60	NT	15.1	14.0	66	50	74	92
STR-92-42	60	NT	90	NT	15.3	15.0	50	58	82	77
STR-92-43	60	NT	90	NT	15.2	14.2	49	57	81	78
STR-92-46	60	NT	60	NT	15.2	14.0	69	80	82	71
STR-92-47	60	NT	60	NT	14.2	15.0	72	64	72	81
STR-92-48	60	NT	60	NT	15.0	15.6	62	76	83	73
STR-92-49	60	NT	60	NT	14.0	14.0	66	57	74	86
STR-92-50	60	NT	60	NT	14.3	14.4	58	70	87	77
STR-92-51	60	NT	60	NT	14.0	15.7	61	54	78	90
STR-92-53	60	NT	60	NT	14.0	14.6	54	53	81	90
STR-92-54	60	NT	60	NT	14.3	14.2	49	50	81	91
STR-92-55	60	NT	60	NT	15.5	14.9	58	60	79	74
STR-92-56	60	NT	60	NT	14.2	14.3	47	51	83	92
STR-92-57	60	NT	60	NT	14.3	14.8	57	60	80	75
STR-92-58	60	NT	60	NT	14.2	14.1	42	51	85	93
STR-92-59	60	NT	60	NT	14.0	14.0	56	59	81	76
STR-92-60	60	NT	60	NT	14.0	14.0	54	56	82	79
STR-92-61	60	NT	60	NT	14.0	13.9	52	54	84	79
STR-92-62	60	NT	60	NT	15.3	14.2	50	50	86	80
STR-92-64	60	NT	60	NT	14.9	14.2	50	51	82	93
STR-92-65	60	NT	60	NT	14.1	13.7	48	50	82	91
STR-92-79	60	NT	60	NT	14.9	14.1	49	56	71	76
STR-92-80	60	NT	60	NT	15.7	15.8	53	59	66	72
STR-92-81	60	NT	60	T	15.8	14.0	51	62	68	68
STR-92-82	60	NT	60	NT	14.6	15.3	49	54	72	77
STR-92-83	60	NT	60	NT	14.3	15.3	52	54	70	77
STR-92-84	60	NT	60	NT	15.1	16.0	55	52	68	78

TABLE 5. RESULTS OF NO-TRACK TESTS (KENTUCKY '93) (continued)

SAMPLE NUMBER	RESULTS				THICKNESS (mil)		RELATIVE HUMIDITY (%)		AIR TEMP (o F)	
	TIME (SEC)	PCC	TIME (SEC)	ASPH	PCC	ASPH	PCC	ASPH	PCC	ASPH
STR-93-01	60	NT	60	NT	15.0	15.7	58	51	79	93
STR-93-02	60	NT	60	NT	14.0	14.7	41	54	86	79
STR-93-03	60	NT	60	NT	14.3	13.1	57	54	79	90
STR-93-04	60	NT	60	NT	15.1	15.3	55	50	82	91
STR-93-05	120	NT	120	NT	15.3	14.3	53	48	81	93
STR-93-06	120	NT	120	NT	14.3	14.1	49	50	81	96
STR-93-07	120	NT	120	NT	14.1	14.3	44	58	84	77
STR-93-08	60	NT	60	NT	14.5	15.7	36	51	88	80
STR-93-09	60	NT	60	T	15.4	15.1	47	60	95	74
STR-93-10	60	NT	60	NT	14.5	14.2	50	52	90	79
STR-93-11	60	NT	60	NT	15.7	13.4	52	51	92	92
STR-93-12	60	NT	60	NT	14.9	14.7	68	60	81	75
STR-93-13	60	NT	60	NT	16.0	15.1	50	50	90	91
STR-93-14	60	NT	60	NT	15.6	14.5	58	45	87	84
STR-93-15	60	NT	60	NT	14.5	14.2	57	45	89	84
STR-93-70	90	NT	90	NT	14.3	14.8	50	50	93	91
STR-93-71	180	NT	120	NT	15.4	16.0	57	50	87	92
STR-93-72	60	NT	120	NT	15.2	14.8	61	49	84	92
STR-93-73	120	NT	60	NT	15.8	14.8	63	47	87	93
STR-93-74	180	NT	300	NT	14.2	15.6	56	57	88	81
STR-93-75	60	NT	60	NT	14.6	14.1	60	80	82	71
STR-93-76	60	T	60	NT	14.7	14.0	64	49	81	91
STR-93-77	60	NT	60	NT	14.3	14.8	60	77	84	72
STR-93-78	60	NT	60	NT	14.2	14.5	66	54	79	90
STR-93-79	60	T	60	NT	14.3	14.3	56	70	88	77
STR-93-80	60	NT	60	NT	15.8	14.1	68	61	77	87
STR-93-81	60	NT	60	NT	14.6	14.1	58	67	85	80
STR-93-82	*	*	60	NT	14.4	14.3	*	54	*	90
STR-93-83	60	NT	60	NT	14.7	15.0	56	78	90	73
STR-93-84	60	NT	60	NT	14.7	14.0	52	74	91	75
STR-93-85	60	NT	60	NT	14.2	15.5	50	79	90	70
STR-93-86	60	NT	60	NT	15.8	15.3	50	80	90	71
STR-93-87	60	NT	60	NT	13.9	14.7	57	63	86	84
STR-93-88	60	NT	60	NT	16.2	15.4	54	70	93	77
STR-93-89	60	NT	60	NT	14.7	16.0	57	58	88	90
STR-93-90	60	NT	60	NT	15.9	15.5	58	50	65	78
STR-93-91	60	NT	60	NT	14.1	15.3	60	50	63	79
STR-93-92	60	NT	60	NT	14.9	14.2	51	58	68	73
STR-93-93	60	NT	60	NT	14.3	15.0	51	62	66	68
STR-93-94	60	NT	60	NT	15.8	14.3	51	63	65	67
STR-93-95	60	NT	60	NT	15.0	14.7	52	64	64	66
STR-93-96	60	NT	60	NT	14.6	14.0	48	46	88	82
STR-93-97	60	NT	60	NT	15.0	14.2	36	49	88	97
STR-93-98	60	NT	60	NT	14.1	14.0	50	49	82	92
STR-93-99	60	NT	60	NT	15.0	14.8	54	67	93	81
STR-93-100	60	NT	60	NT	14.9	14.0	52	51	81	90
STR-93-101	60	NT	60	NT	14.0	14.7	56	69	90	78
STR-93-102	60	NT	60	NT	14.0	15.9	46	42	90	84
STR-93-103	60	NT	60	NT	14.4	14.0	36	51	88	94
STR-93-104	60	NT	60	NT	14.2	15.0	46	40	90	86
STR-93-105	60	NT	60	NT	13.4	15.5	46	42	90	84
STR-93-112	60	NT	60	NT	14.1	15.0	50	65	93	82
STR-93-113	60	NT	60	NT	14.5	14.7	51	68	92	79

NT - paint did not track.

T - paint did track.

* Material not installed.

TABLE 6. WEATHER INFORMATION FOR TEST STRIPE INSTALLATION (KENTUCKY 1993)

DATE	TIME	AIR TEMPERATURE (o F)		PAVEMENT TEMPERATURE (o F)		RELATIVE HUMIDITY (%)	
		ASPHALT	PCC	ASPHALT	PCC	ASPHALT	PCC
6/2/93	9:00 A		64	65	70		52
	10:00 A		64	68	70		51
	11:00 A		68	68	69		51
	12:00 P		66	70	70		53
	1:00 P		73	72	75		47
	2:00 P		68	74	75		55
	3:00 P		63		70		62
6/3/93	9:00 A	66		68		64	
	10:00 A	68		76		62	
	11:00 A	73		79		58	
	12:00 P	77		91		54	
	1:00 P	79		97		50	
6/7/93	10:00 A		68		71		70
	11:00 A		77		82		62
	12:00 P		82		91		60
	1:00 P		86		97		60
	2:00 P		88		98		56
	3:00 P		93		100		58
	9:00 A		77		78		68
6/8/93	10:00 A		81		84		65
	11:00 A		84		87		60
	12:00 P		86		95		57
	1:00 P		88		100		57
	2:00 P		88		103		57
	3:00 P		91		107		51
	4:00 P		95		109		47
	9:00 A		79		81		66
6/9/93	10:00 A		82		84		55
	8:30 A		75		75		76
6/10/93	9:00 A		79		80		70
	10:00 A		81		82		68
	11:00 A		82		88		69
	12:00 P		84		92		61
	1:00 P		90		102		56
	2:00 P		93		108		54
	3:00 P		90		101		50
	9:00 A	70		72		78	
6/11/93	10:00 A	72		75		80	
	11:00 A	77		81		70	
	12:00 P	81		98		67	
	1:00 P	90		98		58	
	2:00 P	91		101		49	
	9:00 A	73		77		78	
	10:00 A	81		89		64	
6/14/93	11:00 A	90		95		54	
	12:00 P	90		98		52	
	1:00 P	93		110		47	
	2:00 P	91		110		50	
	3:00 P	93		117		51	
	4:00 P	97		118		49	

TABLE 6. WEATHER INFORMATION FOR TEST STRIPE INSTALLATION (KENTUCKY 1993) (continued)

DATE	TIME	AIR TEMPERATURE (° F)		PAVEMENT TEMPERATURE (° F)		RELATIVE HUMIDITY (%)	
		ASPHALT	PCC	ASPHALT	PCC	ASPHALT	PCC
6/15/93	9:00 A	70		70		77	
	10:00 A	73		78		70	
	11:00 A	81		85		54	
	12:00 P	82		93		50	
	1:00 P	81		90		49	
	2:00 P	88		96		36	
6/16/93	10:00 A	75		80		60	
	11:00 A	79		89		56	
	12:00 P	81		91		48	
	1:00 P	86		96		40	
	2:00 P	83		103		44	
	3:00 P	84		100		45	
6/17/93	9:00 A		77		76		59
	10:00 A		81		83		56
	11:00 A		84		92		52
	12:00 P		90		99		46

TABLE 7. WEATHER INFORMATION OVER EVALUATION PERIOD (1993-94)

KENTUCKY			
MONTH	AVERAGE TEMPERATURE (FAHRENHEIT)	TOTAL RAINFALL (INCHES)	TOTAL SNOWFALL (INCHES)
MAY	54.0	2.43	0.0
JUNE	62.7	5.46	0.0
JULY	66.5	3.38	0.0
AUGUST	65.0	4.52	0.0
SEPTEMBER	58.6	3.00	0.0
OCTOBER	46.9	4.19	0.0
NOVEMBER	36.2	5.42	0.1
DECEMBER	28.1	3.31	7.4
JANUARY	25.2	4.50	16.4
FEBRUARY	36.8	4.42	2.8
MARCH	43.6	6.83	5.0
APRIL	58.1	5.18	0.0
MAY	60.2	4.86	0.0

ALABAMA

APRIL	68.0	3.11	0.0
MAY	77.0	2.64	0.0
JUNE	86.0	4.01	0.0
JULY	85.0	1.55	0.0
AUGUST	84.0	6.48	0.0
SEPTEMBER	77.0	3.73	0.0
OCTOBER	70.0	5.60	0.0
NOVEMBER	57.0	4.10	0.0
DECEMBER	48.0	3.15	3.0
JANUARY	46.0	5.16	0.0
FEBRUARY	57.0	4.58	0.0
MARCH	64.0	5.42	0.0
APRIL	73.0	3.90	0.0
MAY	78.0	2.83	0.0

TABLE 8. Reflectivity Data for Beaded Paint and Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Asphalt Pavement (Kentucky)

SAMPLE NUMBER	REFLECTIVITY MEASUREMENTS*											
	JUNE 1993	JULY 1993	AUG 1993	SEP 1993	OCT 1993	NOV 1993	DEC 1993	JAN 1994	FEB 1994	MAR 1994	APR 1994	MAY 1994
Paint-Solvent, White (60 sec)												
92-17**	366	278	272	215	168	165	153	150	122	104	86	73
	388	366	330	263	229	212	189	222	179	184	167	142
92-39	263	169	175	145	133	146	149	188	158	167	133	116
	254	223	219	197	181	194	206	242	216	262	248	204
92-48	270	192	176	138	124	133	128	148	100	86	77	67
	278	239	231	197	182	181	176	217	189	208	198	183
92-50	331	237	224	173	162	168	163	194	136	85	72	62
	340	326	314	281	261	259	256	296	272	295	279	236
93-3	319	214	170	129	115	119	113	127	111	102	85	73
	353	267	239	205	204	201	202	216	186	222	198	170
93-9	281	171	130	90	82	75	72	70	54	45	42	40
	282	192	153	134	128	118	118	126	106	110	99	202
93-12	300	239	190	139	130	118	130	134	104	92	78	63
	326	272	217	179	166	153	154	177	158	176	157	168
93-75	351	251	217	170	154	149	140	156	119	117	99	76
	368	334	307	284	252	236	228	242	216	240	222	192
93-77	286	215	196	165	155	148	147	181	130	122	107	89
	294	291	299	279	251	231	238	272	231	257	236	215
93-79	208	154	150	115	113	114	113	136	114	127	106	91
	201	172	169	161	154	153	153	167	154	176	175	163
93-95	384	227	157	118	92	96	91	106	89	78	73	63
	433	349	273	215	180	168	158	164	138	151	135	120
93-99	313	238	219	178	158	160	159	189	147	123	94	70
	347	296	283	248	234	232	223	256	239	258	245	219
93-101	354	224	228	190	175	182	167	197	151	104	86	69
	356	315	311	287	265	273	271	328	295	315	304	256
93-113	322	217	181	144	115	114	102	104	71	63	56	43
	322	309	307	287	259	259	246	297	236	241	220	199

TABLE 8. Reflectivity Data for Beaded Paint and Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Asphalt Pavement (Kentucky) (continued)

SAMPLE NUMBER	REFLECTIVITY MEASUREMENTS*											
	JUNE 1993	JULY 1993	AUG 1993	SEP 1993	OCT 1993	NOV 1993	DEC 1993	JAN 1994	FEB 1994	MAR 1994	APR 1994	MAY 1994
Paint-Solvent, Yellow (60 sec)												
92-18	285	239	220	165	138	119	122	124	97	91	73	55
	333	313	283	234	194	167	165	174	149	153	143	117
92-19	263	204	160	115	89	98	86	101	63	70	60	47
	290	244	193	154	131	121	112	120	112	120	114	102
92-20	295	206	185	141	123	120	113	115	90	88	71	57
	303	277	230	186	165	157	145	145	139	153	134	123
92-23	211	150	124	92	79	86	82	97	60	87	79	66
	217	185	145	123	113	111	109	122	106	124	109	89
92-40	266	169	134	98	95	98	95	104	93	94	68	59
	306	217	194	168	156	156	159	166	132	165	142	126
92-47	338	218	198	149	125	122	111	111	76	61	52	48
	340	299	263	242	223	216	208	219	178	177	157	141
92-49	283	212	207	168	161	156	158	183	120	116	78	65
	268	244	223	206	204	204	205	234	194	238	208	192
92-51	345	265	243	191	164	165	154	164	117	81	64	47
	336	309	282	260	247	250	240	282	234	270	247	221
92-53	274	219	215	166	153	146	133	138	94	78	53	47
	286	267	260	238	226	226	219	239	209	241	215	187
92-81	301	228	190	131	98	101	85	92	78	80	64	54
	318	295	272	235	224	204	178	194	148	185	150	122
93-4	285	182	149	110	100	101	98	107	95	84	70	60
	294	234	208	182	172	166	172	191	152	179	171	133
93-10	312	140	106	74	65	72	68	77	61	70	65	60
	342	146	120	96	92	93	87	97	83	99	94	84
93-11	223	132	109	82	77	75	72	78	62	53	52	45
	234	173	131	107	100	90	86	98	89	90	86	68
93-13	286	164	126	92	77	84	81	92	76	80	71	51
	285	202	146	130	116	112	105	108	97	118	111	93
93-76	238	180	179	143	131	132	123	163	103	122	96	81
	235	213	215	199	187	189	179	212	182	204	183	164

TABLE 8. Reflectivity Data for Beaded Paint and Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Asphalt Pavement (Kentucky) (continued)

SAMPLE NUMBER	REFLECTIVITY MEASUREMENTS*											
	JUNE 1993	JULY 1993	AUG 1993	SEP 1993	OCT 1993	NOV 1993	DEC 1993	JAN 1994	FEB 1994	MAR 1994	APR 1994	MAY 1994
Paint-Solvent, Yellow (60 sec) (cont.)												
93-78	365	189	197	148	123	121	135	118	75	74	65	60
	280	272	270	243	225	219	214	242	189	200	177	155
93-80	238	191	187	148	135	136	132	168	127	131	108	88
	217	202	212	198	186	187	182	215	198	216	214	180
93-93	200	118	97	68	57	66	59	67	57	56	47	41
	234	194	158	121	108	99	94	107	89	103	93	85
93-94	257	146	113	80	70	73	68	77	68	69	61	54
	301	232	201	150	134	128	146	126	112	123	116	96
93-98	309	255	253	222	200	197	191	224	178	142	96	74
	302	257	249	232	220	222	236	265	245	273	265	232
93-100	340	251	253	203	178	190	171	194	143	100	70	56
	305	288	270	250	241	238	233	281	250	288	279	238
92-112	255	198	200	152	132	154	123	169	99	98	77	63
	245	229	244	232	220	213	219	234	190	213	212	216
Paint-Water, White (60 sec)												
92-33	366	344	318	268	263	265	279	232	236	216	166	130
	356	376	355	333	329	320	327	370	285	354	331	263
92-41	257	226	215	199	193	196	223	237	219	170	168	130
	254	256	252	245	237	239	243	285	278	294	286	227
92-46	341	203	180	144	123	129	129	150	115	118	95	83
	348	253	218	191	174	178	171	190	180	204	189	173
92-54	254	214	210	188	178	179	181	226	206	170	155	116
	283	280	272	242	255	250	270	308	289	307	312	255
92-56	359	335	321	280	282	272	267	310	274	263	214	179
	356	348	330	315	321	307	322	371	342	363	371	300
92-58	314	296	279	246	253	246	251	289	266	256	234	189
	308	319	310	287	307	294	305	351	339	349	358	312
92-64	386	305	282	229	227	202	203	242	182	158	133	98
	346	325	308	285	897	269	277	328	303	311	311	259

TABLE 8. Reflectivity Data for Beaded Paint and Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Asphalt Pavement (Kentucky) (continued)

SAMPLE NUMBER	REFLECTIVITY MEASUREMENTS*											
	JUNE 1993	JULY 1993	AUG 1993	SEP 1993	OCT 1993	NOV 1993	DEC 1993	JAN 1994	FEB 1994	MAR 1994	APR 1994	MAY 1994
Paint-Water, White (60 sec) (cont.)												
92-80	497	454	428	376	362	354	353	370	305	284	231	204
	464	449	424	419	417	411	426	451	372	429	433	359
93-1	377	327	302	267	253	241	239	260	238	206	171	149
	370	360	328	317	317	306	326	349	332	322	318	257
93-14	278	256	232	207	164	173	173	176	169	143	133	113
	299	293	265	248	224	232	232	259	225	207	241	189
93-81	466	387	380	352	322	303	315	321	275	254	226	180
	510	476	458	426	407	407	418	454	393	399	417	358
93-84	373	305	279	258	229	226	218	221	211	150	125	102
	358	370	352	336	324	306	322	358	331	331	347	284
93-87	357	293	303	273	253	261	254	300	249	267	202	184
	398	375	375	348	330	338	349	360	343	362	364	310
93-92	494	436	443	394	372	362	344	363	344	313	268	240
	455	454	433	423	413	415	427	459	395	437	441	371
93-97	300	310	285	277	268	220	252	301	270	254	251	213
	297	320	305	338	292	289	309	335	301	279	342	274
93-103	370	351	352	316	316	294	307	366	334	318	285	235
	353	361	339	326	339	325	339	418	398	403	421	369
Paint-Water, Yellow (60 sec)												
92-25	311	272	228	215	199	188	184	198	161	143	121	102
	322	310	344	285	272	276	274	275	245	214	227	201
92-26	330	283	259	227	214	184	183	189	151	131	113	94
	351	296	253	237	241	215	212	224	193	201	176	164
92-27	267	217	201	184	174	170	165	185	163	153	134	113
	269	245	235	229	214	210	218	217	206	220	201	171
92-28	240	208	201	188	176	171	166	177	167	170	137	120
	240	223	203	197	188	187	178	211	186	186	184	172
92-29	236	186	171	173	146	146	150	211	142	142	127	110
	231	210	194	206	182	189	188	196	158	185	174	153

TABLE 8. Reflectivity Data for Beaded Paint and Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Asphalt Pavement (Kentucky) (continued)

SAMPLE NUMBER	REFLECTIVITY MEASUREMENTS*											
	JUNE 1993	JULY 1993	AUG 1993	SEP 1993	OCT 1993	NOV 1993	DEC 1993	JAN 1994	FEB 1994	MAR 1994	APR 1994	MAY 1994
Paint-Water, Yellow (60 sec) (cont.)												
92-31	233	220	207	199	174	173	170	182	157	153	138	126
	256	245	223	239	214	210	215	232	195	247	209	185
92-34	201	156	179	133	125	120	122	136	122	101	90	76
	208	190	201	169	162	159	167	198	183	175	178	112
92-42	172	165	178	144	135	132	127	145	127	110	102	81
	182	189	180	171	171	169	173	193	188	180	179	134
92-43	197	178	156	148	136	132	133	145	128	117	97	82
	204	194	186	180	180	173	188	192	185	189	186	155
92-55	184	154	137	126	126	121	117	148	144	130	113	96
	185	171	163	156	154	148	154	184	168	182	179	106
92-57	224	206	218	175	165	153	170	190	168	157	139	121
	227	234	228	201	188	183	199	223	205	212	213	161
92-59	162	144	175	133	124	117	119	159	141	134	119	101
	166	164	188	154	150	147	164	170	171	174	171	142
92-60	204	185	168	162	144	149	152	163	147	145	115	100
	208	206	198	192	187	181	195	212	192	202	205	178
92-61	242	222	215	182	179	171	168	184	166	160	139	107
	249	250	222	215	199	196	202	222	200	217	219	179
92-62	218	172	202	182	149	147	145	165	149	152	130	105
	222	195	213	186	174	204	179	198	180	217	191	170
92-65	257	184	160	127	114	107	103	122	93	74	62	56
	259	214	195	176	151	175	168	182	146	171	167	132
92-79	364	340	326	283	259	266	253	281	218	218	179	161
	370	363	352	328	324	325	341	357	313	336	350	292
92-82	317	286	268	247	213	220	205	230	200	173	136	153
	325	315	296	287	267	272	288	288	246	276	282	241
92-83	312	272	260	230	216	227	214	234	195	196	161	126
	314	295	273	265	251	265	279	286	220	273	283	238
92-84	314	240	233	187	176	196	181	208	172	167	118	112
	306	273	247	230	227	222	222	251	199	231	240	189

TABLE 8. Reflectivity Data for Beaded Paint and Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Asphalt Pavement (Kentucky) (continued)

SAMPLE NUMBER	REFLECTIVITY MEASUREMENTS*											
	JUNE 1993	JULY 1993	AUG 1993	SEP 1993	OCT 1993	NOV 1993	DEC 1993	JAN 1994	FEB 1994	MAR 1994	APR 1994	MAY 1994
Paint-Water, Yellow (60 sec) (cont.)												
93-2	256	237	205	178	170	161	153	165	146	129	105	84
	272	265	239	220	214	207	207	230	208	239	198	167
93-8	193	172	214	149	177	139	133	174	127	119	100	109
	204	194	231	184	183	169	186	214	191	183	200	166
93-15	315	288	255	182	200	179	173	204	163	143	134	117
	340	307	269	259	252	242	253	275	227	222	255	211
93-82	408	290	295	246	207	227	201	193	164	123	113	89
	407	361	344	328	311	306	309	357	294	314	331	271
93-83	268	230	232	201	197	195	181	198	166	157	134	118
	281	280	278	253	255	257	253	277	266	265	272	231
93-85	308	240	214	192	182	183	164	181	149	126	105	91
	315	271	262	243	234	241	246	264	253	259	255	223
93-86	318	237	224	189	168	175	149	168	127	111	100	87
	302	295	275	257	251	256	253	295	274	270	283	238
93-88	244	209	209	197	165	184	180	203	154	175	162	147
	246	235	236	227	212	224	230	266	230	253	256	224
93-89	263	221	218	189	181	182	175	173	168	154	126	107
	310	297	290	270	262	275	264	286	267	268	271	236
93-90	338	287	272	243	231	220	213	246	200	191	158	140
	319	295	283	267	262	254	270	284	231	270	273	231
93-91	358	292	273	241	232	219	206	235	177	180	151	128
	358	322	299	283	271	290	299	315	259	282	305	233
93-96	232	189	245	196	170	170	161	187	160	165	136	107
	243	236	255	249	216	207	220	236	214	215	236	196
93-102	256	231	227	206	191	180	179	200	178	170	155	129
	253	256	271	230	221	212	213	240	206	274	220	193
93-104	316	310	291	299	249	244	244	271	232	237	195	162
	319	323	293	296	279	269	240	307	277	239	274	213
93-105	266	258	250	250	204	205	197	231	206	197	168	146
	270	276	259	217	247	246	239	275	258	268	263	215

TABLE 8. Reflectivity Data for Beaded Paint and Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Asphalt Pavement (Kentucky) (continued)

SAMPLE NUMBER	REFLECTIVITY MEASUREMENTS*											
	JUNE 1993	JULY 1993	AUG 1993	SEP 1993	OCT 1993	NOV 1993	DEC 1993	JAN 1994	FEB 1994	MAR 1994	APR 1994	MAY 1994
Paint-Polyester, White												
92-6	566	559	582	547	507	514	510	506	404	475	454	395
	542	597	587	565	537	552	570	583	536	578	559	451
92-8	545	543	521	502	480	465	475	410	369	437	400	364
	522	580	561	552	531	537	550	561	517	552	553	439
92-10	588	568	587	521	459	482	451	428	413	401	358	306
	559	609	597	557	562	543	581	571	527	576	572	501
92-36	283	213	181	151	130	131	88	103	97	77	68	55
	280	318	322	289	287	291	274	264	278	271	304	216
93-5	216	211	183	153	129	148	180	149	98	99	111	71
	210	233	224	220	218	225	224	228	216	234	236	174
93-70	417	430	433	388	382	388	366	388	377	359	349	318
	395	435	434	425	423	431	442	456	431	456	459	425
93-73	429	417	428	387	379	368	372	367	351	382	348	311
	421	451	436	439	409	397	441	438	416	442	460	365
Paint-Polyester, Yellow												
92-7	440	398	380	336	321	322	308	311	293	274	256	223
	449	425	411	392	374	364	389	394	377	377	396	325
92-9	437	412	347	330	310	297	284	280	252	225	204	180
	428	441	422	406	403	386	383	394	379	376	390	312
92-11	298	282	273	244	218	210	215	224	214	192	185	170
	315	307	299	276	264	266	300	278	273	276	283	252
92-37	136	91	87	84	83	91	81	82	79	84	73	66
	134	103	105	103	97	109	104	97	104	109	105	79
92-38	130	80	76	67	64	59	61	63	63	62	55	49
	132	93	87	80	82	77	79	91	92	87	88	79
93-6	118	78	84	60	53	53	58	66	67	74	63	56
	120	101	99	83	78	79	78	89	85	83	87	108
93-7	134	96	91	80	77	74	78	85	85	94	93	77
	138	123	117	105	98	94	102	105	106	112	113	100

TABLE 8. Reflectivity Data for Beaded Paint and Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Asphalt Pavement (Kentucky) (continued)

SAMPLE NUMBER	REFLECTIVITY MEASUREMENTS*											
	JUNE 1993	JULY 1993	AUG 1993	SEP 1993	OCT 1993	NOV 1993	DEC 1993	JAN 1994	FEB 1994	MAR 1994	APR 1994	MAY 1994
Paint-Polyester, Yellow (cont.)												
93-71	366	353	334	299	289	261	259	274	290	175	179	148
	345	364	355	341	338	326	335	363	350	361	365	275
93-72	346	351	334	299	271	274	272	270	239	165	161	142
	337	344	335	326	328	312	347	325	319	353	356	266
93-74	366	358	337	305	289	291	282	302	278	275	229	195
	352	372	367	333	312	367	369	379	351	362	359	315
Paint-Methyl Methacrylate Polymer, White												
92-66	274	221	220	195	173	175	166	258	112	118	120	88
	278	274	249	239	220	203	190	178	129	94	113	81
92-68	283	220	217	181	171	181	154	209	202	189	147	156
	306	254	249	221	226	215	217	245	223	209	163	170
92-71	368	348	335	299	287	280	278	244	250	220	130	96
	370	397	407	363	362	342	345	323	318	318	248	271
Paint-Methyl Methacrylate Polymer, Yellow												
92-67	214	118	78	61	57	54	50	60	73	79	112	69
	121	67	66	58	59	57	60	54	62	68	134	58
92-69	383	348	306	254	238	243	226	223	171	140	122	99
	340	349	360	348	334	337	344	344	341	345	271	219
92-70	248	221	155	144	113	100	104	81	64	59	78	59
	206	150	132	155	100	93	98	100	97	87	93	73
93-65	***	166	158	126	115	124	108	112	101	73	64	49
	***	135	128	112	91	110	113	122	117	118	117	106
Paint-Multipolymer, White												
92-97	218	219	192	164	151	145	116	88	102	87	96	66
	225	202	191	179	157	188	162	143	179	157	171	130
Paint-Multipolymer, Yellow												
92-99	251	271	259	233	217	226	216	218	195	151	153	137
	224	242	246	228	236	221	239	224	226	220	243	164

TABLE 8. Reflectivity Data for Beaded Paint and Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Asphalt Pavement (Kentucky) (continued)

SAMPLE NUMBER	REFLECTIVITY MEASUREMENTS*											
	JUNE 1993	JULY 1993	AUG 1993	SEP 1993	OCT 1993	NOV 1993	DEC 1993	JAN 1994	FEB 1994	MAR 1994	APR 1994	MAY 1994
Thermoplastic-Alkyd, White												
92-22	653	525	470	429	311	342	276	329	223	300	302	255
	583	562	557	522	513	496	526	423	543	477	517	365
92-72	555	459	465	395	337	311	307	300	214	273	218	234
	528	510	473	427	422	397	402	425	372	390	321	287
93-35	228	149	137	130	116	127	123	138	126	119	132	113
	231	198	192	207	183	200	203	199	209	210	194	174
93-41	481	355	323	254	222	212	190	223	241	261	249	239
	503	464	441	407	410	407	432	413	469	432	387	294
93-43	539	438	411	375	330	342	309	359	371	383	378	320
	501	527	522	502	458	498	500	463	471	554	455	394
93-47	493	386	324	240	206	214	218	282	239	236	197	197
	491	430	455	433	383	376	386	382	375	347	283	248
93-58	400	374	367	314	286	277	285	319	261	287	250	215
	369	384	365	350	330	316	332	341	330	347	373	287
93-69	462	326	263	217	194	175	191	315	320	314	230	211
	449	463	414	400	354	329	351	328	323	342	267	255
Thermoplastic-Alkyd, Yellow												
92-21	252	103	96	99	85	85	112	154	163	148	133	120
	289	205	198	153	132	108	129	100	125	110	124	109
92-73	302	266	248	214	191	186	144	148	120	132	122	116
	291	290	277	260	226	227	204	195	184	188	206	130
93-36	433	289	289	260	290	264	250	241	200	187	171	166
	446	407	384	351	360	332	377	358	371	401	358	323
93-39	231	153	131	121	131	111	120	146	154	155	137	125
	243	202	210	200	185	183	206	184	181	186	186	140
93-40	243	150	148	144	128	141	151	143	145	146	166	127
	239	199	189	227	180	196	196	190	225	225	219	152
93-42	247	185	176	160	148	150	134	154	223	175	151	152
	257	242	245	283	217	226	228	204	204	231	195	221

TABLE 8. Reflectivity Data for Beaded Paint and Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Asphalt Pavement (Kentucky) (continued)

SAMPLE NUMBER	REFLECTIVITY MEASUREMENTS*											
	JUNE 1993	JULY 1993	AUG 1993	SEP 1993	OCT 1993	NOV 1993	DEC 1993	JAN 1994	FEB 1994	MAR 1994	APR 1994	MAY 1994
Thermoplastic-Alkyd, Yellow (cont.)												
93-46	373	188	163	143	122	128	141	186	156	168	169	136
	356	299	300	257	246	225	230	245	243	226	235	157
93-59	286	241	228	189	150	139	108	100	87	123	124	111
	256	252	256	241	206	196	186	195	175	198	162	139
93-68	262	207	206	164	143	139	119	163	131	162	141	131
	271	243	239	238	227	218	222	211	200	197	185	160
Thermoplastic-Hydrocarbon, White												
92-14	355	207	115	88	91	95	92	144	151	175	140	158
	360	350	297	213	171	137	136	124	127	137	140	119
92-75	581	302	169	147	151	161	177	223	175	184	153	161
	550	463	332	239	159	150	130	194	160	224	197	180
92-76	340	303	272	230	232	240	224	331	268	285	220	227
	415	331	341	347	305	390	369	372	400	438	350	318
93-32	312	261	160	130	134	140	128	139	113	88	70	86
	358	330	302	276	265	249	225	231	201	197	227	140
93-44	467	319	276	230	208	211	198	208	197	195	155	177
	439	387	342	330	296	280	293	314	289	290	264	202
93-66	430	211	194	197	203	207	223	304	248	255	248	195
	428	342	238	201	182	179	196	271	272	326	362	268
Thermoplastic-Hydrocarbon, Yellow												
92-74	225	128	86	67	78	83	81	101	101	94	129	78
	206	192	172	140	113	101	85	97	90	159	205	91
92-78	261	248	182	151	135	123	112	156	135	121	153	102
	242	266	265	238	240	243	255	245	244	249	289	163
92-98	201	208	190	158	136	124	106	89	97	100	105	89
	196	224	231	230	202	209	200	198	197	193	181	119
93-28	184	158	128	70	67	70	71	115	121	141	95	99
	187	174	172	166	165	161	163	159	145	143	92	128

TABLE 8. Reflectivity Data for Beaded Paint and Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Asphalt Pavement (Kentucky) (continued)

SAMPLE NUMBER	REFLECTIVITY MEASUREMENTS*											
	JUNE 1993	JULY 1993	AUG 1993	SEP 1993	OCT 1993	NOV 1993	DEC 1993	JAN 1994	FEB 1994	MAR 1994	APR 1994	MAY 1994
Thermoplastic-Hydrocarbon, Yellow (cont.)												
93-29	267	218	136	104	94	94	114	188	170	173	151	164
	212	245	251	308	203	189	212	163	210	191	134	132
93-33	197	94	87	85	83	80	82	64	45	35	34	37
	170	151	142	124	109	90	93	96	101	115	110	95
93-34	207	139	94	96	94	92	92	76	63	42	61	42
	208	185	183	143	145	133	115	124	116	128	122	102
93-45	333	223	186	142	131	138	132	152	140	135	139	122
	337	262	261	235	220	246	228	246	232	230	220	177
93-60	233	97	74	68	76	77	84	105	96	97	113	82
	241	188	142	120	82	73	71	84	83	106	147	104
93-67	352	158	133	121	121	122	137	199	190	177	186	144
	358	292	224	174	144	158	143	176	158	190	256	155
Thermoplastic-Preformed, White												
92-63	243	256	204	174	144	116	156	168	166	170	141	148
	220	309	311	297	265	270	243	230	204	186	205	182
93-37	177	251	260	227	212	208	223	271	197	170	163	131
	166	255	269	267	255	262	282	341	312	332	352	276
93-38	121	256	316	295	284	282	312	374	335	240	216	163
	131	310	329	320	319	339	365	422	438	411	403	275
93-54	418	356	230	179	161	126	174	176	160	162	140	148
	406	443	435	381	361	359	371	294	219	216	202	270
93-55	410	352	249	193	170	127	185	221	174	186	174	169
	366	418	442	399	379	353	395	382	329	304	280	298
Thermoplastic-Preformed, Yellow												
93-30	189	117	135	116	114	117	110	117	100	100	93	108
	212	123	129	156	130	137	150	144	148	158	173	131
93-31	191	137	146	125	119	114	117	112	101	91	80	85
	217	195	200	191	177	174	185	176	169	171	172	136

TABLE 8. Reflectivity Data for Beaded Paint and Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Asphalt Pavement (Kentucky) (continued)

SAMPLE NUMBER	REFLECTIVITY MEASUREMENTS*											
	JUNE 1993	JULY 1993	AUG 1993	SEP 1993	OCT 1993	NOV 1993	DEC 1993	JAN 1994	FEB 1994	MAR 1994	APR 1994	MAY 1994
Permanent Tape, White												
92-1	682	345	211	142	117	94	98	89	95	83	84	76
	636	623	619	536	523	517	518	455	397	398	301	239
92-3	363	168	102	83	68	77	70	70	77	71	70	71
	314	323	311	275	235	229	242	208	159	152	159	134
92-86	622	233	148	118	85	89	78	80	85	92	85	68
	643	503	453	354	311	269	271	243	232	188	160	148
93-23	319	296	284	234	220	179	196	238	214	185	165	137
	315	292	299	260	250	262	266	261	254	251	243	202
93-25	608	576	556	460	433	290	483	384	414	335	289	238
	584	575	589	504	479	515	547	505	536	517	512	375
93-26	686	698	660	549	525	396	574	487	517	406	424	380
	682	658	656	587	565	591	618	596	589	584	588	382
93-49	409	407	394	338	310	331	289	249	252	211	184	147
	417	423	425	384	376	383	394	356	345	347	309	286
93-106	913	951	883	770	712	723	657	654	623	496	417	321
	815	938	954	920	872	902	929	868	853	847	733	734
93-108	436	342	329	282	255	221	253	238	218	203	188	160
	472	457	468	407	386	395	417	397	371	354	339	228
Permanent Tape, Yellow												
92-2	254	233	191	167	152	108	170	152	133	120	113	108
	237	242	247	228	216	226	228	208	227	208	211	181
92-85	740	344	244	165	120	127	85	84	86	85	75	57
	752	612	565	449	422	419	429	366	362	360	309	262
93-17	539	552	522	424	408	311	433	387	377	336	329	300
	559	561	569	494	491	520	526	480	447	466	440	351
93-24	335	313	305	251	232	160	218	210	208	183	172	152
	324	315	313	261	253	274	280	264	251	251	239	176
93-27	546	525	507	411	398	268	419	357	371	307	309	276
	532	521	524	450	439	476	500	471	447	461	462	300

TABLE 8. Reflectivity Data for Beaded Paint and Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Asphalt Pavement (Kentucky) (continued)

SAMPLE NUMBER	REFLECTIVITY MEASUREMENTS*											
	JUNE 1993	JULY 1993	AUG 1993	SEP 1993	OCT 1993	NOV 1993	DEC 1993	JAN 1994	FEB 1994	MAR 1994	APR 1994	MAY 1994
Permanent Tape, Yellow (cont.)												
93-48	504	493	479	418	379	409	329	315	312	267	225	168
	529	535	536	480	469	473	509	448	424	401	415	345
93-107	655	546	527	455	435	438	443	438	428	396	380	284
	684	652	671	610	598	612	650	621	616	591	618	440
93-109	214	134	130	120	99	106	97	90	92	86	77	66
	242	191	198	174	162	159	172	160	155	153	143	134
Temporary Tape, White												
92-92	758	250	166	158	134	114	111	108	117	106	77	74
	806	522	488	426	393	400	395	370	346	239	311	224
93-56	1244	476	153	102	91	89	67	61	74	78	74	53
	1331	974	348	144	135	129	124	122	124	136	126	122
Temporary Tape, Yellow												
92-90	699	327	189	149	123	110	95	95	102	95	76	68
	656	503	470	416	400	367	381	356	329	314	306	228
93-57	1007	495	212	141	117	111	74	66	64	67	70	45
	1123	778	371	167	136	126	124	103	114	119	96	103
93-64	977	335	212	99	67	94	58	64	59	51	43	37
	1022	972	666	305	198	199	169	136	133	117	126	117

* Millicandelas per square foot per footcandle.

** Top number is wheel track measurement and bottom number is centerline measurement.

*** No data available.

TABLE 9. Reflectivity Data for Beaded Paint and Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Portland Cement Concrete Pavement (Kentucky)

SAMPLE NUMBER	REFLECTIVITY MEASUREMENTS*											
	JUNE 1993	JULY 1993	AUG 1993	SEP 1993	OCT 1993	NOV 1993	DEC 1993	JAN 1994	FEB 1994	MAR 1994	APR 1994	MAY 1994
Paint-Solvent, White (60 sec)												
92-17**	342	255	219	180	168	134	136	123	118	93	81	69
	306	267	226	226	187	174	167	166	147	151	133	125
92-39	338	284	201	173	168	130	129	120	102	98	83	69
	336	302	274	229	229	175	165	154	140	142	128	109
92-48	359	233	186	157	162	122	135	144	129	96	83	64
	375	285	245	219	206	194	188	207	178	191	167	153
92-50	375	247	200	185	181	154	159	177	139	99	83	62
	383	309	264	248	243	233	229	238	241	241	220	197
93-3	204	166	149	134	150	121	125	109	97	76	71	55
	244	178	162	159	183	139	154	154	129	134	124	110
93-9	245	159	125	96	116	92	93	83	66	73	63	53
	248	161	149	115	133	103	108	101	86	94	81	65
93-12	407	279	228	186	186	134	156	155	125	107	94	78
	410	319	253	226	219	203	201	188	162	173	140	147
93-75	267	206	183	162	173	153	147	124	130	94	83	73
	322	249	239	226	215	200	197	193	186	196	165	155
93-77	257	186	161	152	158	147	138	154	139	102	79	71
	301	227	227	213	193	186	187	229	185	210	182	171
93-79	192	173	168	155	155	145	133	142	130	109	100	83
	224	206	183	196	191	187	188	194	201	193	171	166
93-95	348	268	205	173	151	133	123	108	109	102	104	81
	407	330	274	226	193	175	168	153	148	142	105	116
93-99	436	291	246	234	208	186	178	194	180	163	131	129
	412	332	286	273	285	279	268	294	275	270	241	222
93-101	383	260	223	202	200	188	184	198	185	160	124	93
	387	301	273	266	265	250	249	306	253	284	254	220
93-113	213	185	171	161	152	143	149	142	116	101	87	67
	259	227	217	210	212	204	208	212	207	188	169	160

TABLE 9. Reflectivity Data for Beaded Paint and Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Portland Cement Concrete Pavement (Kentucky) (continued)

SAMPLE NUMBER	REFLECTIVITY MEASUREMENTS*											
	JUNE 1993	JULY 1993	AUG 1993	SEP 1993	OCT 1993	NOV 1993	DEC 1993	JAN 1994	FEB 1994	MAR 1994	APR 1994	MAY 1994
Paint-Solvent, Yellow (60 sec)												
92-18	325	263	238	215	191	176	153	144	142	111	92	82
	349	308	278	243	206	187	173	186	156	162	133	123
92-19	244	177	145	129	131	122	119	111	113	100	90	73
	271	187	165	142	143	131	133	143	131	135	122	107
92-20	334	236	194	169	155	149	148	127	128	109	93	82
	304	247	218	215	172	165	157	161	145	149	134	125
92-23	243	183	144	132	130	119	118	115	114	99	86	79
	243	191	159	143	144	138	139	143	131	135	123	115
92-40	276	151	126	108	111	102	107	102	88	73	59	48
	275	155	141	131	138	118	132	132	125	119	110	83
92-47	285	227	199	163	157	160	128	135	87	67	57	53
	295	263	236	230	211	201	203	240	176	151	124	107
92-49	299	245	216	187	196	157	171	157	128	88	67	62
	286	257	229	231	228	209	210	256	235	201	179	156
92-51	258	197	185	162	180	159	171	149	139	111	89	73
	282	228	206	201	203	197	193	268	227	235	213	192
92-53	234	163	165	159	160	139	141	149	113	78	63	50
	223	190	183	173	177	167	170	237	196	184	164	139
92-81	298	268	223	223	175	154	136	117	122	103	82	74
	324	308	273	262	234	201	192	179	171	149	128	123
93-4	258	178	143	120	133	105	114	117	106	102	76	68
	251	185	151	134	144	111	125	137	130	130	115	98
93-10	212	149	115	101	106	99	98	96	93	93	74	68
	197	145	123	119	122	111	110	120	105	115	103	94
93-11	222	136	118	96	98	95	91	83	131	82	73	61
	226	162	141	123	116	109	110	113	102	108	95	93
93-13	221	157	121	110	114	111	112	108	110	110	93	79
	220	160	134	123	127	118	124	133	124	138	122	116
93-76	220	121	120	106	109	95	100	111	123	121	101	98
	233	139	133	125	119	119	111	138	144	144	134	120

TABLE 9. Reflectivity Data for Beaded Paint and Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Portland Cement Concrete Pavement (Kentucky) (continued)

SAMPLE NUMBER	REFLECTIVITY MEASUREMENTS*											
	JUNE 1993	JULY 1993	AUG 1993	SEP 1993	OCT 1993	NOV 1993	DEC 1993	JAN 1994	FEB 1994	MAR 1994	APR 1994	MAY 1994
Paint-Solvent, Yellow (60 sec) (cont.)												
93-78	270	162	159	135	141	131	129	133	145	123	102	82
	271	184	175	164	161	154	149	184	169	177	158	150
93-80	219	159	154	142	134	132	127	117	111	104	90	81
	231	191	200	175	180	184	174	204	172	189	161	153
93-93	239	140	101	94	87	77	70	62	74	79	63	61
	215	172	135	123	102	95	93	91	91	93	88	77
93-94	237	171	146	125	115	99	93	72	87	90	84	68
	260	205	189	170	150	128	120	107	108	111	86	84
93-98	217	169	168	163	160	147	123	132	106	89	74	60
	227	187	176	185	178	170	174	241	217	204	186	146
93-100	220	164	159	144	161	126	117	110	87	64	53	48
	220	181	175	164	191	161	156	206	178	161	140	109
93-112	159	147	134	137	139	126	128	134	114	102	85	70
	180	163	164	163	161	156	152	151	148	146	136	130
Paint-Water, White (60 sec)												
92-24	320	300	288	289	286	251	260	259	243	229	206	187
	353	329	310	284	294	288	292	337	338	317	307	284
92-30	311	215	208	210	215	206	204	207	199	182	175	136
	301	265	246	248	251	253	271	351	288	301	292	275
92-33	189	134	137	133	137	131	135	154	147	149	126	106
	194	150	144	146	155	149	162	219	197	204	191	175
92-41	348	327	314	303	286	293	286	289	293	250	215	175
	338	341	331	331	350	328	335	370	374	379	357	353
92-46	386	249	202	162	170	128	146	143	149	128	111	87
	403	296	245	217	200	197	186	240	171	189	167	150
92-54	288	269	251	250	247	232	226	287	262	238	223	188
	295	289	283	288	279	275	284	331	323	330	318	283
92-56	305	294	274	268	273	259	254	261	284	249	210	159
	304	301	281	283	286	284	295	324	339	339	332	280

TABLE 9. Reflectivity Data for Beaded Paint and Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Portland Cement Concrete Pavement (Kentucky) (continued)

SAMPLE NUMBER	REFLECTIVITY MEASUREMENTS*											
	JUNE 1993	JULY 1993	AUG 1993	SEP 1993	OCT 1993	NOV 1993	DEC 1993	JAN 1994	FEB 1994	MAR 1994	APR 1994	MAY 1994
Paint-Water, White (60 sec) (cont.)												
92-58	246	224	239	224	219	212	218	236	240	210	189	156
	251	255	250	245	251	254	249	300	289	305	287	262
92-64	239	200	205	189	217	198	186	215	176	159	137	102
	245	225	228	220	221	215	222	287	257	258	232	199
92-80	416	427	350	363	384	377	367	342	327	289	260	212
	471	447	408	409	418	419	442	357	435	436	427	401
93-1	379	291	259	262	274	243	265	247	254	218	184	138
	374	288	255	264	256	249	254	302	267	274	261	228
93-14	331	287	267	240	243	224	225	220	229	192	181	143
	354	329	289	302	288	284	293	306	320	313	311	297
93-81	312	291	290	262	274	232	258	270	283	275	244	187
	304	311	302	289	282	297	296	354	338	349	342	315
93-84	460	368	312	309	326	311	293	309	254	186	172	121
	407	351	301	319	332	319	345	385	358	349	338	306
93-87	208	179	202	172	177	177	175	183	204	193	169	142
	241	204	196	190	193	215	193	256	261	274	266	245
93-92	442	380	372	306	357	346	343	298	320	261	249	203
	472	432	391	394	381	391	408	392	384	382	383	336
93-97	399	354	335	300	332	309	302	323	279	239	211	189
	316	377	344	346	358	331	354	381	352	328	330	303
93-103	424	370	359	347	356	312	337	344	319	290	256	209
	412	423	387	374	398	354	389	430	367	382	361	301
Paint-Water, Yellow (60 sec)												
92-25	334	221	210	199	223	202	190	181	187	147	141	99
	336	275	288	276	250	275	264	275	253	242	205	194
92-26	357	317	277	281	287	268	267	259	241	193	170	136
	359	316	289	282	282	280	283	277	247	230	206	171
92-27	314	206	175	169	181	168	150	139	139	132	118	93
	307	240	226	218	212	208	203	228	209	209	194	183

TABLE 9. Reflectivity Data for Beaded Paint and Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Portland Cement Concrete Pavement (Kentucky) (continued)

SAMPLE NUMBER	REFLECTIVITY MEASUREMENTS*											
	JUNE 1993	JULY 1993	AUG 1993	SEP 1993	OCT 1993	NOV 1993	DEC 1993	JAN 1994	FEB 1994	MAR 1994	APR 1994	MAY 1994
Paint-Water, Yellow (60 sec) (cont.)												
92-28	306	222	210	197	205	192	190	178	166	140	126	112
	338	272	263	247	246	243	222	246	227	214	192	182
92-29	297	197	193	191	199	167	177	173	172	150	136	116
	267	231	221	208	223	213	213	229	224	227	215	188
92-31	318	210	207	198	209	189	189	180	177	161	139	129
	274	238	220	218	217	224	226	229	218	222	225	202
92-34	254	182	186	175	185	155	151	166	158	159	134	109
	249	196	180	175	200	166	167	193	184	182	167	135
92-42	158	136	150	137	136	127	128	130	134	128	120	99
	165	144	149	138	148	148	140	165	159	160	153	128
92-43	167	156	156	143	144	131	142	145	151	135	120	98
	172	166	158	161	162	152	159	186	177	180	174	149
92-55	210	170	160	159	180	149	158	178	160	147	139	99
	210	192	185	166	201	170	183	195	188	185	182	172
92-57	274	242	229	207	228	199	206	209	222	165	161	123
	274	257	235	229	233	208	215	226	186	202	186	158
92-59	204	187	171	153	182	158	159	160	121	136	115	97
	226	196	191	195	200	185	196	198	183	167	175	153
92-60	218	201	196	190	189	183	186	193	173	163	139	122
	217	226	222	208	206	200	213	225	205	211	202	178
92-61	241	235	220	215	215	204	208	209	191	182	150	138
	237	243	228	225	223	215	220	236	220	208	215	183
92-62	197	192	182	172	174	167	167	173	162	147	131	120
	207	201	190	185	190	183	194	200	193	181	193	169
92-65	213	144	153	128	141	130	126	196	123	98	84	62
	225	174	170	155	152	140	151	176	159	162	145	120
92-79	356	328	307	309	302	282	297	257	270	221	215	189
	373	345	341	310	316	323	343	329	314	344	318	287
92-82	309	274	242	240	244	230	215	283	184	147	155	120
	318	288	261	263	264	262	287	266	243	248	243	218

TABLE 9. Reflectivity Data for Beaded Paint and Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Portland Cement Concrete Pavement (Kentucky) (continued)

SAMPLE NUMBER	REFLECTIVITY MEASUREMENTS*											
	JUNE 1993	JULY 1993	AUG 1993	SEP 1993	OCT 1993	NOV 1993	DEC 1993	JAN 1994	FEB 1994	MAR 1994	APR 1994	MAY 1994
Paint-Water, Yellow (60 sec) (cont.)												
92-83	313	272	255	240	268	249	250	234	241	200	203	166
	301	286	270	268	268	268	288	286	272	276	273	246
92-84	301	251	236	217	221	219	221	178	191	175	157	139
	282	250	230	230	229	233	244	220	216	234	224	232
93-2	372	286	262	234	237	215	216	190	174	130	110	96
	364	315	277	259	261	241	248	270	231	223	204	188
93-8	211	175	174	152	181	157	162	171	156	154	138	129
	196	190	188	170	181	166	177	207	196	197	189	162
93-15	303	241	214	201	202	188	189	186	173	157	139	110
	350	247	212	207	222	212	231	235	215	228	213	178
93-82	369	259	243	228	227	217	201	199	155	147	156	112
	393	311	288	260	272	268	290	292	259	280	257	228
93-83	292	248	237	234	236	232	232	220	206	200	169	129
	284	264	238	253	250	252	234	276	242	267	263	240
93-85	302	295	241	239	250	243	217	227	202	189	158	134
	306	302	269	285	277	272	278	320	274	283	276	263
93-86	336	266	248	235	246	251	224	221	184	154	140	108
	355	324	296	296	294	278	315	336	293	283	269	261
93-88	276	244	218	227	241	225	223	216	201	190	166	150
	291	264	245	252	260	263	260	269	259	258	256	230
93-89	287	229	202	193	215	204	200	205	194	172	144	108
	310	278	243	253	258	264	265	272	232	255	241	200
93-90	311	280	268	241	266	240	238	233	229	205	185	167
	304	281	259	247	255	259	283	262	253	270	267	245
93-91	340	303	297	290	289	274	275	281	272	221	235	197
	347	314	293	289	297	300	316	303	301	313	309	283
93-96	206	200	190	181	184	176	205	175	176	149	138	113
	216	212	204	209	208	198	217	230	211	196	202	186
93-102	234	228	219	219	219	205	213	215	205	182	160	126
	229	255	248	224	223	227	241	261	223	231	224	201

TABLE 9. Reflectivity Data for Beaded Paint and Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Portland Cement Concrete Pavement (Kentucky) (continued)

SAMPLE NUMBER	REFLECTIVITY MEASUREMENTS*											
	JUNE 1993	JULY 1993	AUG 1993	SEP 1993	OCT 1993	NOV 1993	DEC 1993	JAN 1994	FEB 1994	MAR 1994	APR 1994	MAY 1994
Paint-Water, Yellow (60 sec) (cont.)												
93-104	257	283	269	243	248	245	246	261	238	210	183	156
	262	271	259	260	258	248	260	291	270	251	239	238
93-105	234	228	228	236	214	217	221	228	215	182	173	134
	247	258	253	239	237	238	248	273	242	232	235	217
Paint-Polyester, White												
92-6	551	548	533	508	503	483	490	477	437	411	400	325
	551	555	526	546	546	555	543	509	482	511	491	483
92-8	524	464	424	396	394	396	333	360	321	205	170	169
	533	538	500	500	476	504	511	442	474	487	473	458
92-10	527	524	488	461	450	439	418	377	367	314	215	186
	524	553	519	517	502	502	530	457	485	476	464	459
92-36	207	184	170	180	156	185	166	171	185	195	175	156
	204	183	173	181	181	172	178	199	204	207	202	190
93-5	179	154	158	152	149	147	149	158	166	189	156	144
	174	189	167	170	181	170	172	198	194	202	191	172
93-70	474	485	484	440	462	463	456	470	454	432	393	376
	471	509	487	505	475	524	529	529	433	491	454	426
93-73	440	431	470	456	436	439	422	392	407	375	366	305
	438	473	461	460	474	467	447	528	433	465	440	388
Paint-Polyester, Yellow												
92-7	425	367	358	356	371	328	348	317	320	303	268	234
	353	382	361	349	348	373	334	330	341	350	334	311
92-9	312	288	307	301	283	244	243	250	215	166	144	110
	321	387	356	353	351	354	363	304	276	322	316	250
92-11	303	282	257	251	243	226	227	216	212	178	130	103
	306	301	288	280	278	280	274	295	225	238	216	218
92-37	109	77	76	71	75	66	67	70	76	90	75	60
	109	87	82	80	83	73	75	84	84	90	89	81

TABLE 9. Reflectivity Data for Beaded Paint and Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Portland Cement Concrete Pavement (Kentucky) (continued)

SAMPLE NUMBER	REFLECTIVITY MEASUREMENTS*											
	JUNE 1993	JULY 1993	AUG 1993	SEP 1993	OCT 1993	NOV 1993	DEC 1993	JAN 1994	FEB 1994	MAR 1994	APR 1994	MAY 1994
Paint-Polyester, Yellow (cont.)												
92-38	94	71	69	68	67	62	65	63	72	85	72	65
	84	71	70	63	70	60	61	67	66	74	71	70
93-6	108	73	68	62	66	53	53	63	64	76	66	59
	108	76	75	69	72	63	63	73	72	77	73	61
93-7	115	81	77	67	75	66	71	70	80	87	76	60
	112	97	90	79	88	77	80	78	87	95	91	80
93-71	331	330	300	303	294	290	276	316	258	198	172	138
	357	359	350	355	348	324	357	389	363	359	325	290
93-72	348	338	333	329	329	296	276	278	266	194	182	150
	322	334	343	340	344	334	326	369	341	335	317	270
93-74	363	345	326	318	317	296	308	289	246	202	169	135
	367	364	348	325	337	353	351	346	369	360	343	306
Paint-Methyl Methacrylate Polymer, White												
92-66	440	329	247	230	227	232	155	188	178	164	142	123
	394	372	324	306	305	287	282	279	271	270	244	215
92-68	330	241	216	205	181	195	154	182	199	195	169	164
	354	287	274	275	236	273	271	288	262	261	206	203
92-71	374	326	286	285	267	274	279	294	296	252	216	164
	370	350	317	323	291	318	310	363	373	369	352	328
Paint-Methyl Methacrylate Polymer, Yellow												
92-44	149	122	113	115	146	111	93	86	90	72	66	63
	129	122	113	112	114	108	103	113	106	116	107	102
92-67	351	253	204	205	178	197	217	190	184	143	126	90
	338	285	259	244	212	232	220	221	194	195	188	176
92-69	265	164	129	107	108	111	118	96	120	106	94	92
	271	208	181	170	160	157	152	162	178	139	122	129
92-70	282	215	196	188	165	179	195	190	176	140	119	90
	280	237	221	214	186	205	205	245	251	230	203	216

TABLE 9. Reflectivity Data for Beaded Paint and Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Portland Cement Concrete Pavement (Kentucky) (continued)

SAMPLE NUMBER	REFLECTIVITY MEASUREMENTS*											
	JUNE 1993	JULY 1993	AUG 1993	SEP 1993	OCT 1993	NOV 1993	DEC 1993	JAN 1994	FEB 1994	MAR 1994	APR 1994	MAY 1994
Paint-Multipolymer, White												
92-97	282	195	194	167	218	161	159	139	156	173	147	155
	220	215	213	198	183	194	204	204	214	202	195	191
Paint-Multipolymer, Yellow												
92-99	258	249	201	218	198	201	219	190	182	188	153	161
	228	237	225	210	193	224	220	225	214	208	209	223
Thermoplastic-Alkyd, White												
92-22	846	583	463	473	465	396	331	293	417	312	314	367
	706	599	508	550	726	536	501	615	517	556	446	489
92-72	585	541	390	488	402	401	353	316	256	272	248	249
	557	539	461	450	396	428	406	471	465	432	424	348
93-35	286	181	181	244	283	164	149	168	215	189	165	181
	259	202	210	253	305	205	178	245	301	264	207	221
93-41	532	441	320	442	343	298	312	296	315	326	270	263
	523	491	430	498	491	418	414	512	512	451	430	357
93-43	482	445	399	412	475	371	312	379	461	442	411	382
	426	485	452	545	509	475	456	431	504	438	440	472
93-47	471	414	349	331	238	239	232	306	354	263	246	234
	522	451	428	458	371	369	377	413	419	375	344	320
93-58	574	518	444	425	344	315	262	251	205	252	189	238
	491	501	413	408	364	333	338	334	297	310	246	238
93-69	466	317	189	235	226	254	269	396	365	345	294	299
	478	478	440	396	311	324	284	399	349	400	375	370
Thermoplastic-Alkyd, Yellow												
92-21	390	320	397	358	394	151	114	175	264	275	198	241
	408	375	411	386	433	265	238	365	343	282	271	252
92-73	282	235	156	167	114	101	79	125	194	174	135	132
	277	264	271	231	189	187	156	180	161	166	147	147
93-36	482	347	310	373	382	323	307	296	285	260	201	222
	485	435	380	432	439	348	353	446	419	438	394	346

TABLE 9. Reflectivity Data for Beaded Paint and Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Portland Cement Concrete Pavement (Kentucky) (continued)

SAMPLE NUMBER	REFLECTIVITY MEASUREMENTS*											
	JUNE 1993	JULY 1993	AUG 1993	SEP 1993	OCT 1993	NOV 1993	DEC 1993	JAN 1994	FEB 1994	MAR 1994	APR 1994	MAY 1994
Thermoplastic-Alkyd, Yellow (cont.)												
93-39	300	233	178	194	215	170	119	189	280	199	167	183
	261	241	229	293	230	208	180	221	251	223	196	191
93-40	262	200	154	221	268	176	149	179	251	203	231	207
	244	231	195	233	347	215	193	230	264	250	220	239
93-42	300	170	190	208	240	168	116	129	274	259	176	185
	264	217	208	305	278	204	161	185	199	180	184	139
93-46	377	284	238	219	202	182	168	204	209	246	177	183
	389	331	292	280	266	244	235	279	290	223	197	211
93-59	221	204	123	150	123	102	94	121	132	153	117	139
	221	220	193	196	169	158	153	163	147	170	145	124
93-68	269	224	164	139	123	122	108	196	200	172	136	153
	260	262	281	249	215	200	193	221	210	194	183	166
Thermoplastic-Hydrocarbon, White												
92-14	475	406	323	347	252	251	169	154	153	176	152	137
	464	457	420	466	361	408	424	365	319	301	297	307
92-75	609	378	226	160	145	171	160	174	189	185	175	176
	595	516	380	316	160	155	138	175	183	217	210	218
93-32	315	256	146	145	138	169	172	179	152	97	82	69
	329	294	293	251	207	227	268	239	244	234	207	301
93-44	462	393	327	297	274	284	228	214	218	256	199	205
	511	450	413	378	340	330	278	364	386	327	295	320
93-66	469	302	205	233	233	216	204	270	298	272	233	277
	419	352	236	198	232	183	193	304	281	334	305	273
Thermoplastic-Hydrocarbon, Yellow												
92-74	219	103	86	86	89	93	90	94	130	110	81	94
	251	199	131	94	80	64	70	96	142	123	128	130
92-98	307	265	225	209	186	175	133	108	127	126	118	107
	298	273	250	254	215	230	245	279	240	222	225	214

TABLE 9. Reflectivity Data for Beaded Paint and Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Portland Cement Concrete Pavement (Kentucky) (continued)

SAMPLE NUMBER	REFLECTIVITY MEASUREMENTS*											
	JUNE 1993	JULY 1993	AUG 1993	SEP 1993	OCT 1993	NOV 1993	DEC 1993	JAN 1994	FEB 1994	MAR 1994	APR 1994	MAY 1994
Thermoplastic-Hydrocarbon, Yellow (cont.)												
93-28	236	183	141	86	120	94	78	142	166	182	131	119
	218	189	156	218	204	178	145	158	180	152	181	137
93-29	324	270	163	124	194	111	96	226	194	149	106	175
	308	292	288	264	310	308	232	209	296	176	167	194
93-33	157	120	88	90	79	95	85	66	68	50	45	45
	165	159	135	128	79	130	88	106	117	127	119	129
93-34	171	128	91	94	85	101	89	65	69	58	46	50
	183	168	144	133	102	111	101	100	127	135	137	140
93-45	329	241	223	192	168	161	139	133	152	165	162	133
	324	284	248	243	218	240	199	264	263	238	209	224
93-60	217	83	67	78	99	82	80	94	134	105	114	94
	208	171	119	100	85	70	66	97	97	113	111	110
93-67	370	180	128	148	160	163	148	212	238	185	176	160
	337	265	150	128	146	121	128	186	213	228	200	222
Thermoplastic-Preformed, White												
92-63	249	244	202	215	198	155	154	158	189	184	172	161
	180	255	260	292	286	275	264	275	262	256	249	211
93-37	231	292	313	303	255	269	268	282	228	218	179	171
	218	301	329	358	350	356	397	452	449	480	462	431
93-38	268	278	314	335	346	314	288	304	262	238	212	197
	241	281	296	325	291	300	297	381	466	453	424	461
93-54	286	330	295	320	241	212	190	188	218	205	190	172
	246	332	353	369	326	348	366	341	330	311	304	272
93-55	415	377	258	319	264	220	185	214	266	274	252	191
	410	461	433	504	401	418	357	354	284	328	278	278
Thermoplastic-Preformed, Yellow												
93-30	84	114	128	149	138	148	142	143	129	125	102	92
	83	132	130	147	142	151	151	169	174	180	188	182

TABLE 9. Reflectivity Data for Beaded Paint and Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Portland Cement Concrete Pavement (Kentucky) (continued)

SAMPLE NUMBER	REFLECTIVITY MEASUREMENTS*											
	JUNE 1993	JULY 1993	AUG 1993	SEP 1993	OCT 1993	NOV 1993	DEC 1993	JAN 1994	FEB 1994	MAR 1994	APR 1994	MAY 1994
Thermoplastic-Preformed, Yellow (cont.)												
93-31	138 148	144 182	136 175	168 189	140 190	127 173	127 182	110 182	139 191	120 216	96 196	98 201
Permanent Tape, White												
92-1	542 547	295 558	205 508	173 432	120 472	99 466	86 479	88 452	125 428	102 402	85 392	76 329
92-3	321 305	169 307	110 256	97 242	79 206	85 235	70 243	75 199	128 200	95 165	85 155	64 151
92-86	668 701	286 525	196 451	174 401	126 358	133 416	129 412	120 377	108 351	128 279	102 235	97 198
93-23	268 272	289 288	256 269	261 264	216 244	231 258	248 281	234 251	215 260	195 260	181 258	173 258
93-25	526 491	558 630	522 573	481 568	407 512	436 558	445 581	382 582	380 574	344 578	271 540	250 516
93-26	573 570	654 662	577 605	574 558	503 554	526 601	439 644	474 586	457 592	371 583	356 584	332 581
93-49	428 426	409 428	360 419	329 385	303 356	321 389	327 440	269 395	254 405	182 395	153 373	137 382
93-106	865 765	901 911	784 882	753 887	644 801	732 914	612 920	539 900	435 883	347 805	284 922	253 858
93-108	446 487	359 470	291 431	306 395	255 378	291 405	220 349	225 412	218 432	192 406	158 367	156 372
Permanent Tape, Yellow												
92-2	259 234	246 257	203 224	218 227	188 211	210 224	176 227	176 229	183 236	163 231	131 229	106 218
92-85	802 777	410 664	265 601	204 487	143 507	141 509	182 457	94 519	106 522	96 498	80 441	70 404
93-17	531 540	591 586	528 548	534 537	477 512	499 542	475 546	435 532	460 534	386 550	370 519	334 529

TABLE 9. Reflectivity Data for Beaded Paint and Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Portland Cement Concrete Pavement (Kentucky) (continued)

SAMPLE NUMBER	REFLECTIVITY MEASUREMENTS*											
	JUNE 1993	JULY 1993	AUG 1993	SEP 1993	OCT 1993	NOV 1993	DEC 1993	JAN 1994	FEB 1994	MAR 1994	APR 1994	MAY 1994
Permanent Tape, Yellow (cont.)												
93-24	312	316	289	307	235	244	256	223	257	215	164	168
	310	325	303	291	262	285	279	288	297	306	296	287
93-27	492	534	480	457	408	428	411	376	376	350	303	294
	505	566	519	508	462	505	540	518	515	532	493	463
93-48	557	541	494	433	390	423	359	356	301	250	205	173
	559	549	518	488	466	503	500	514	507	508	485	469
93-107	704	598	519	514	453	503	457	430	387	371	311	271
	710	691	609	625	591	632	658	652	636	671	671	646
93-109	211	169	115	124	102	113	185	144	103	88	165	78
	251	207	190	185	167	191	294	141	181	177	171	166
Temporary Tape, White												
92-92	996	458	280	233	214	213	144	148	105	114	98	94
	952	685	566	533	531	523	548	561	508	510	445	390
93-56	1272	596	145	107	90	98	107	94	95	92	80	79
	1343	1053	349	165	131	143	130	142	143	137	134	131
Temporary Tape, Yellow												
92-90	702	397	284	237	193	192	130	143	121	116	103	85
	717	510	456	436	391	407	407	418	373	382	362	278
93-57	1082	582	222	155	122	111	117	84	93	87	80	68
	1079	865	427	189	139	138	189	139	132	131	121	121
93-64	1099	539	166	122	87	95	67	75	93	92	81	78
	1088	850	475	201	163	149	156	153	142	138	126	116

* Millicandelas per square foot per footcandle.

** Top number is wheeltrack measurement and bottom number is centerline measurement.

TABLE 10. Reflectivity Data for Removable Tape Lines on Asphalt Pavement (Kentucky)

SAMPLE NUMBER		REFLECTIVITY MEASUREMENT (4)						
		JUN 1993	JUL 1993	AUG 1993	SEP 1993	OCT 1993	NOV 1993	DEC 1993
Removable Tape, Yellow								
2-04	T-LW (1)	561	149	104	84	65	65	66
	T-C (2)	548	438	412	332	333	360	348
	L (3)	547	485	497	449	402	427	412
2-87	T-LW	649	318	290	285	254	277	239
	T-C	683	582	595	523	462	516	510
	L	664	555	577	560	493	516	498
2-91	T-LW	649	102	101	96	77	82	92
	T-C	638	247	234	212	157	162	151
	L	715	308	271	253	214	232	203
3-18	T-LW	1026	154	127	159	116	300	101
	T-C	1078	739	638	586	525	564	624
	L	964	813	712	700	638	803	750
3-19	T-LW	936	228	168	*	*	*	*
	T-C	1060	937	562	*	*	*	*
	L	1003	903	929	869	788	828	795
3-21	T-LW	537	122	116	107	67	45	55
	T-C	534	273	244	211	177	236	171
	L	497	416	414	372	330	339	237
3-22	T-LW	441	358	234	103	117	*	*
	T-C	430	408	963	310	232	265	*
	L	424	445	947	614	438	468	473
3-51	T-LW	605	484	466	445	357	407	357
	T-C	606	556	557	556	456	489	495
	L	589	497	490	490	406	464	436
3-53	T-LW	529	131	128	111	86	102	103
	T-C	557	311	301	270	226	257	255
	L	528	384	376	348	331	332	301
3-62	T-LW	1113	642	483	384	294	233	177
	T-C	1108	1043	1019	881	787	756	820
	L	1087	976	967	887	774	817	751
3-110	T-LW	557	127	87	79	54	55	76
	T-C	616	336	256	191	136	122	133
	L	628	369	282	309	252	282	248

TABLE 10. Reflectivity Data for Removable Tape Lines on Asphalt Pavement (Kentucky) (continued)

SAMPLE NUMBER		REFLECTIVITY MEASUREMENT (4)						
		JUN 1993	JUL 1993	AUG 1993	SEP 1993	OCT 1993	NOV 1993	DEC 1993
Removable Tape, White								
2-05	T-LW	1086	496	361	296	240	221	160
	T-C	1108	984	949	844	774	842	808
	L	1236	1061	1088	996	902	938	903
2-88	T-LW	1059	383	314	290	260	236	211
	T-C	1165	921	900	848	727	817	831
	L	1161	832	825	808	698	801	915
2-89	T-LW	766	285	260	233	181	179	157
	T-C	895	587	521	503	417	474	440
	L	883	694	643	591	489	561	563
3-16	T-LW	1099	254	140	194	338	*	*
	T-C	1123	951	963	924	848	888	899
	L	1032	932	947	943	786	920	738
3-20	T-LW	1045	264	*	*	*	*	*
	T-C	1061	942	*	*	*	*	*
	L	1084	953	886	854	807	809	854
3-50	T-LW	1014	313	280	224	180	276	245
	T-C	1009	708	708	641	479	551	564
	L	1009	658	671	633	579	653	665
3-52	T-LW	749	174	154	154	121	127	205
	T-C	817	539	560	864	383	438	219
	L	803	620	631	571	535	568	552
3-63	T-LW	1170	581	405	299	226	186	172
	T-C	1222	973	773	671	536	516	498
	L	1303	1014	892	724	499	499	368

- (1) Transverse Stripe -- Left Wheel Path
(2) Transverse Stripe -- Centerline
(3) Longitudinal Stripe -- Centerline
(4) Millicandelas per square foot per footcandle

* Tape Missing

TABLE 11. Reflectivity Data for Removable Tape Lines on Portland Cement Concrete Pavement (Kentucky)

		REFLECTIVITY MEASUREMENT (4)						
SAMPLE NUMBER		JUN 1993	JUL 1993	AUG 1993	SEP 1993	OCT 1993	NOV 1993	DEC 1993
Removable Tape, Yellow								
2-04	T-LW (1)	553	184	133	101	76	71	88
	T-C (2)	543	434	360	397	341	364	343
	L (3)	489	505	447	467	446	463	468
2-87	T-LW	414	305	261	273	201	216	208
	T-C	663	624	576	551	442	537	495
	L	699	650	605	562	476	563	573
2-91	T-LW	274	125	114	101	85	95	99
	T-C	621	203	215	185	159	167	175
	L	594	292	273	186	176	195	204
3-18	T-LW	971	277	200	197	149	188	181
	T-C	983	644	475	500	518	505	408
	L	994	786	822	785	738	845	860
3-19	T-LW	1040	448	277	297	246	266	250
	T-C	1083	806	711	599	544	453	430
	L	1017	1016	988	860	731	780	814
3-21	T-LW	475	185	129	109	62	69	74
	T-C	513	313	248	196	135	156	198
	L	497	445	372	354	293	311	322
3-22	T-LW	488	414	359	279	237	245	248
	T-C	437	432	371	295	286	319	308
	L	478	489	519	511	441	488	460
3-51	T-LW	491	447	402	390	318	368	357
	T-C	581	555	496	536	441	494	498
	L	550	532	487	513	436	497	542
3-53	T-LW	433	172	143	144	105	119	120
	T-C	520	377	316	319	258	301	311
	L	532	415	374	403	361	372	380
3-62	T-LW	917	606	414	339	256	226	203
	T-C	998	906	802	833	689	641	588
	L	1047	929	672	857	650	651	490
3-110	T-LW	594	129	89	74	84	54	56
	T-C	603	177	237	260	140	140	118
	L	640	426	383	377	289	320	361

TABLE 11. Reflectivity Data for Removable Tape Lines on Portland Cement Concrete Pavement (Kentucky) (continued)

		REFLECTIVITY MEASUREMENT (4)						
SAMPLE NUMBER		JUN 1993	JUL 1993	AUG 1993	SEP 1993	OCT 1993	NOV 1993	DEC 1993
Removable Tape, White								
2-05	T-LW	945	595	436	367	290	331	304
	T-C	1066	947	760	829	778	719	942
	L	1163	1122	1171	1091	994	1101	1151
2-88	T-LW	717	403	311	270	199	207	211
	T-C	717	1012	959	880	714	783	720
	L	820	990	896	836	688	798	862
2-89	T-LW	571	262	229	203	175	170	195
	T-C	831	518	459	435	380	402	352
	L	886	633	643	551	473	519	522
3-16	T-LW	1019	517	432	405	366	405	366
	T-C	1046	835	688	619	518	572	626
	L	1048	893	880	814	789	876	886
3-20	T-LW	1123	352	286	317	303	377	432
	T-C	1104	772	588	936	518	495	750
	L	1126	1002	920	930	830	874	898
3-50	T-LW	621	342	286	259	201	229	227
	T-C	981	821	798	837	679	773	760
	L	917	823	788	791	665	745	724
3-52	T-LW	670	291	188	187	137	147	157
	T-C	790	607	507	510	424	452	415
	L	802	609	549	566	477	496	522
3-63	T-LW	1022	474	292	249	210	186	201
	T-C	1201	1027	802	729	568	535	509
	L	1238	806	827	814	362	357	139

- (1) Transverse Stripe – Left Wheel Path
- (2) Transverse Stripe – Centerline
- (3) Longitudinal Stripe – Centerline
- (4) Millicandelas per square foot per footcandle

* Tape Missing

TABLE 12. Durability Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Asphalt Pavement (Kentucky)

SAMPLE NUMBER	SUBJECTIVE RATINGS											
	JUN 1993	JUL 1993	AUG 1993	SEPT 1993	OCT 1993	NOV 1993	DEC 1993	JAN 1994	FEB 1994	MAR 1994	APR 1994	MAY 1994
Paint-Solvent, White (60 sec)												
92-17	10.0	10.0	10.0	9.9	10.0	10.0	10.0	8.9	8.1	7.8	7.1	7.3
92-39	10.0	10.0	10.0	10.0	10.0	10.0	9.7	9.3	8.7	8.4	8.3	8.2
92-48	10.0	10.0	10.0	10.0	10.0	10.0	9.7	9.1	8.3	7.8	6.9	6.9
92-50	10.0	10.0	10.0	10.0	10.0	10.0	9.9	9.2	8.5	7.0	6.6	7.2
93-3	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.4	8.6	8.6	8.3	8.3
93-9	10.0	10.0	10.0	9.9	10.0	10.0	10.0	9.2	8.3	7.5	6.8	7.4
93-12	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.7	8.4	8.0	7.5	7.5
93-75	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.6	8.9	8.1	8.3	8.4
93-77	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.6	8.9	7.9	7.9	8.1
93-79	10.0	10.0	10.0	9.9	9.9	9.7	9.3	9.4	8.7	8.0	8.0	8.3
93-95	10.0	10.0	10.0	10.0	10.0	10.0	9.7	9.3	8.5	8.3	7.8	7.7
93-99	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.5	8.7	7.6	6.8	7.3
93-101	10.0	10.0	10.0	10.0	10.0	10.0	9.9	9.2	8.5	7.5	6.8	7.2
93-113	10.0	10.0	10.0	10.0	10.0	10.0	9.9	9.2	8.5	7.5	6.8	7.2
Paint-Solvent, Yellow (60 sec)												
92-18	10.0	10.0	10.0	9.8	10.0	10.0	9.9	9.3	8.3	7.7	7.1	7.1
92-19	10.0	10.0	10.0	10.0	10.0	10.0	9.9	9.2	8.3	8.2	7.2	7.5
92-20	10.0	10.0	10.0	10.0	10.0	9.7	9.5	9.2	8.3	7.8	7.3	7.3
92-23	10.0	10.0	10.0	10.0	9.9	10.0	9.9	9.4	8.8	8.4	8.0	8.1
92-40	10.0	10.0	10.0	10.0	10.0	10.0	9.7	9.4	9.0	8.5	8.1	8.2
92-47	10.0	10.0	10.0	10.0	10.0	10.0	9.9	9.3	8.5	7.5	6.8	7.3
92-49	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.4	8.7	7.3	7.1	7.3
92-51	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.4	7.8	7.2	7.0	7.0
92-53	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.0	8.3	7.0	6.5	6.9
92-81	10.0	10.0	9.8	9.7	9.9	9.6	9.5	9.7	8.9	8.8	8.2	8.1

TABLE 12. Durability Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Asphalt Pavement (Kentucky) (continued)

SAMPLE NUMBER	SUBJECTIVE RATINGS											
	JUN 1993	JUL 1993	AUG 1993	SEPT 1993	OCT 1993	NOV 1993	DEC 1993	JAN 1994	FEB 1994	MAR 1994	APR 1994	MAY 1994
Paint-Solvent, Yellow (60 sec) (cont.)												
93-4	10.0	10.0	8.1	10.0	10.0	10.0	9.9	9.5	8.7	8.4	8.1	8.3
93-10	10.0	10.0	10.0	10.0	9.9	9.7	9.3	9.3	8.7	8.5	8.0	8.0
93-11	10.0	10.0	10.0	10.0	10.0	9.9	9.5	9.3	8.9	8.0	7.3	7.5
93-13	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.5	8.9	7.2	7.1	7.2
93-76	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.4	9.0	8.4	8.7	8.8
93-78	10.0	10.0	10.0	10.0	10.0	9.9	9.3	9.4	8.9	8.9	7.9	8.0
93-80	10.0	10.0	10.0	10.0	10.0	10.0	9.1	9.5	9.3	8.9	8.5	7.9
93-93	10.0	10.0	9.9	9.6	10.0	9.5	9.3	9.4	8.8	8.4	8.0	7.9
93-94	10.0	10.0	9.8	9.8	9.7	9.6	9.7	9.4	8.6	8.9	8.8	8.6
93-98	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.7	9.3	8.3	7.4	7.7
93-100	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.5	9.0	7.5	7.0	7.3
93-112	10.0	10.0	10.0	10.0	10.0	9.7	9.3	9.2	8.7	7.9	7.7	7.9
Paint-Water, White (60 sec)												
92-33	10.0	9.9	10.0	10.0	10.0	9.7	9.5	9.5	8.7	8.9	8.9	8.8
92-41	10.0	10.0	10.0	10.0	10.0	8.9	9.3	9.3	8.4	8.6	8.4	8.4
92-46	10.0	10.0	10.0	10.0	10.0	10.0	9.7	9.4	8.7	8.3	7.9	7.7
92-54	10.0	8.3	7.5	7.5	7.4	7.4	7.5	7.8	6.9	7.2	7.0	7.1
92-56	10.0	9.9	10.0	10.0	10.0	10.0	10.0	9.2	8.4	8.7	8.3	8.4
92-58	10.0	9.3	9.3	9.3	9.3	9.2	9.0	9.0	8.2	8.4	8.3	8.4
92-64	10.0	8.6	8.4	8.7	8.2	8.2	8.3	8.1	7.9	8.0	7.9	8.1
92-80	10.0	9.7	9.8	10.0	9.8	9.3	9.3	9.4	8.7	8.9	8.9	8.8
93-1	10.0	10.0	10.0	10.0	10.0	10.0	9.6	9.4	8.9	8.9	8.6	8.5
93-14	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.7	9.2	9.4	9.2	9.4
93-81	10.0	9.3	9.3	9.2	9.2	9.2	9.2	9.2	8.4	8.9	8.8	8.8
93-84	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.7	9.2	9.0	9.1	9.2

TABLE 12. Durability Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Asphalt Pavement (Kentucky) (continued)

SAMPLE NUMBER	SUBJECTIVE RATINGS											
	JUN 1993	JUL 1993	AUG 1993	SEPT 1993	OCT 1993	NOV 1993	DEC 1993	JAN 1994	FEB 1994	MAR 1994	APR 1994	MAY 1994
Paint-Water, White (60 sec) (cont.)												
93-87	10.0	8.9	8.9	8.8	8.8	8.8	8.5	9.1	8.4	8.7	8.7	8.6
93-92	10.0	9.9	9.8	9.9	10.0	9.6	9.3	9.4	8.7	8.9	8.9	8.9
93-97	10.0	10.0	10.0	10.0	10.0	10.0	9.7	9.5	8.7	8.7	8.8	8.9
93-103	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.7	9.2	9.0	8.9	7.3
Paint-Water, Yellow (60 sec)												
92-25	10.0	9.5	9.4	9.3	9.2	9.0	8.7	8.3	7.8	8.3	7.9	7.9
92-26	10.0	10.0	10.0	10.0	10.0	10.0	9.9	9.7	9.3	9.1	8.9	8.8
92-27	10.0	10.0	9.6	9.8	9.7	9.7	9.4	8.7	8.4	8.4	8.4	8.2
92-28	10.0	9.8	8.9	9.3	9.3	9.3	8.9	9.3	8.7	8.9	8.6	8.7
92-29	10.0	9.9	9.7	9.2	9.2	9.2	9.0	8.8	8.2	8.3	8.4	8.4
92-31	10.0	9.8	9.7	9.5	9.5	9.3	9.3	9.5	8.1	8.7	9.0	9.0
92-34	10.0	10.0	10.0	10.0	10.0	10.0	9.9	9.7	9.3	9.3	9.2	9.2
92-42	10.0	10.0	10.0	10.0	10.0	9.5	9.7	9.3	8.2	7.8	7.7	7.7
92-43	10.0	10.0	10.0	9.9	9.8	9.3	9.4	8.9	8.2	7.9	7.5	7.5
92-55	10.0	10.0	9.6	9.7	9.3	9.3	9.3	9.1	8.2	7.6	7.5	7.5
92-57	10.0	10.0	10.0	10.0	10.0	10.0	9.7	9.3	8.9	8.3	8.0	8.2
92-59	10.0	10.0	9.9	9.7	9.7	9.3	9.3	8.5	7.8	7.5	7.3	7.3
92-60	10.0	8.9	8.9	8.6	8.6	8.2	8.4	8.0	7.3	6.9	6.8	7.0
92-61	10.0	10.0	10.0	10.0	9.9	9.7	9.6	9.6	8.9	9.0	8.8	8.9
92-62	10.0	9.3	9.3	9.2	9.0	8.9	8.6	8.6	7.8	7.9	7.7	7.8
92-65	10.0	9.2	9.2	9.2	9.2	9.2	9.2	9.3	8.7	8.3	8.3	8.2
92-79	10.0	9.9	9.8	9.3	9.4	9.3	9.3	9.7	8.7	8.8	8.8	8.8
92-82	10.0	9.3	8.9	9.0	8.9	8.9	8.9	9.2	8.7	8.7	8.7	8.6
92-83	10.0	9.5	9.3	9.4	9.4	9.4	9.2	9.2	9.0	8.7	8.7	8.7
92-84	10.0	10.0	10.0	9.9	10.0	9.9	9.5	9.4	9.2	8.8	8.7	8.7

TABLE 12. Durability Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Asphalt Pavement (Kentucky) (continued)

SAMPLE NUMBER	SUBJECTIVE RATINGS											
	JUN 1993	JUL 1993	AUG 1993	SEPT 1993	OCT 1993	NOV 1993	DEC 1993	JAN 1994	FEB 1994	MAR 1994	APR 1994	MAY 1994
Paint-Water, Yellow (60 sec) (cont.)												
93-2	10.0	10.0	10.0	10.0	9.8	9.3	9.4	9.1	8.4	8.3	7.6	7.8
93-8	10.0	10.0	10.0	10.0	10.0	9.6	9.4	9.2	8.7	8.9	8.6	8.7
93-15	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.7	9.3	9.2	9.1	9.1
93-82	10.0	10.0	10.0	10.0	10.0	9.9	9.7	9.6	9.2	9.3	9.2	9.2
93-83	10.0	10.0	10.0	10.0	10.0	9.7	9.9	9.6	8.9	9.1	9.0	9.0
93-85	10.0	10.0	10.0	10.0	10.0	9.9	9.7	9.8	9.3	8.9	9.0	8.9
93-86	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.7	9.2	8.7	8.8	9.0
93-88	10.0	10.0	10.0	10.0	10.0	10.0	9.9	9.9	9.0	9.3	9.2	9.2
93-89	10.0	8.9	8.7	8.5	8.9	8.5	8.5	8.7	8.4	8.3	8.4	8.4
93-90	10.0	9.9	10.0	9.4	9.5	9.7	9.3	9.3	9.0	8.7	8.7	8.7
93-91	10.0	10.0	10.0	10.0	10.0	9.9	9.7	9.2	8.5	8.8	8.4	8.4
93-96	10.0	9.2	8.7	8.5	8.6	8.6	8.5	8.5	7.6	7.7	7.4	7.5
93-102	10.0	9.6	9.6	9.3	9.3	9.3	9.2	9.0	8.6	8.7	8.6	8.5
93-104	10.0	10.0	10.0	10.0	10.0	10.0	9.7	9.7	9.0	9.0	9.0	9.1
93-105	10.0	10.0	9.9	9.9	9.7	9.5	9.4	9.3	8.4	8.6	8.1	8.3
Paint-Polyester, White												
92-6	10.0	10.0	10.0	10.0	9.9	10.0	9.9	9.7	9.4	9.3	9.3	8.6
92-8	10.0	10.0	10.0	10.0	10.0	9.9	9.7	9.7	9.3	9.0	9.2	9.2
92-10	10.0	10.0	10.0	10.0	9.9	9.3	9.3	9.5	9.1	9.1	9.1	9.2
92-36	10.0	3.4	3.4	2.3	2.0	2.1	1.7	1.5	1.4	1.3	1.0	0.7
93-5	10.0	3.4	3.0	2.7	2.6	2.6	2.2	2.3	2.2	2.3	1.8	1.4
93-70	10.0	10.0	10.0	10.0	10.0	10.0	9.9	9.8	9.3	9.5	9.4	9.5
93-73	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.7	9.3	9.6	9.5	9.7

TABLE 12. Durability Data for Beaded Paint, Beaded Thermoplastic and Nonremovable Tape Transverse Lines on Asphalt Pavement (Kentucky) (continued)

SAMPLE NUMBER	SUBJECTIVE RATINGS											
	JUN 1993	JUL 1993	AUG 1993	SEPT 1993	OCT 1993	NOV 1993	DEC 1993	JAN 1994	FEB 1994	MAR 1994	APR 1994	MAY 1994
Paint-Polyester, Yellow												
92-7	10.0	9.9	9.5	9.5	9.3	9.3	9.1	9.2	8.9	9.1	9.0	9.0
92-9	10.0	9.0	8.9	8.7	8.5	8.6	8.5	9.0	8.2	8.6	8.5	8.6
92-11	10.0	10.0	9.6	9.4	9.2	9.0	8.9	9.2	8.8	9.0	9.0	9.0
92-37	10.0	8.7	8.1	7.7	7.1	6.8	6.2	6.7	6.3	6.6	5.5	5.3
92-38	10.0	7.7	6.1	5.9	5.6	5.1	4.6	4.5	4.3	3.0	2.7	3.8
93-6	10.0	10.0	9.7	9.4	9.5	9.2	8.9	9.1	8.7	9.0	9.0	8.9
93-7	9.3	9.7	9.2	9.3	8.8	8.6	8.6	8.9	8.4	8.6	8.4	8.6
93-71	10.0	10.0	9.7	9.5	9.5	9.3	9.0	9.1	8.4	8.8	8.7	8.7
93-72	10.0	10.0	9.9	9.4	9.6	9.3	9.2	9.4	9.0	9.2	9.0	9.1
93-74	10.0	10.0	10.0	9.9	9.9	9.6	9.5	9.6	9.3	8.7	8.9	8.9
Paint-Methyl Methacrylate Polymer, White												
92-66	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
92-68	10.0	10.0	10.0	10.0	10.0	9.9	10.0	10.0	10.0	10.0	10.0	10.0
92-71	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.3	10.0	9.4	10.0	8.8
Paint-Methyl Methacrylate Polymer, Yellow												
92-67	10.0	10.0	10.0	10.0	10.0	10.0	9.3	10.0	10.0	10.0	10.0	10.0
92-69	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
92-70	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
93-65	10.0	10.0	9.8	9.7	10.0	9.7	9.3	9.0	9.2	8.3	8.0	8.0
Paint-Multipolymer, White												
92-97	10.0	10.0	10.0	9.7	10.0	10.0	9.9	10.0	10.0	9.3	9.9	9.4
Paint-Multipolymer, Yellow												
92-99	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0

TABLE 12. Durability Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Asphalt Pavement (Kentucky) (continued)

SAMPLE NUMBER	SUBJECTIVE RATINGS											
	JUN 1993	JUL 1993	AUG 1993	SEPT 1993	OCT 1993	NOV 1993	DEC 1993	JAN 1994	FEB 1994	MAR 1994	APR 1994	MAY 1994
Thermoplastic-Alkyd, White												
92-22	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.7	9.4	9.6
92-72	10.0	10.0	10.0	10.0	10.0	10.0	9.9	10.0	10.0	10.0	10.0	9.9
93-35	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.8	9.6	9.9	9.9
93-41	10.0	10.0	10.0	10.0	10.0	10.0	9.9	10.0	9.8	9.9	10.0	8.6
93-43	10.0	9.2	10.0	10.0	10.0	10.0	10.0	10.0	9.2	9.3	10.0	9.9
93-47	10.0	10.0	9.9	10.0	10.0	10.0	10.0	10.0	9.9	9.5	9.4	9.6
93-58	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
93-69	10.0	10.0	9.9	10.0	10.0	10.0	9.9	10.0	10.0	9.9	9.9	9.9
Thermoplastic-Alkyd, Yellow												
92-21	10.0	10.0	10.0	10.0	10.0	9.9	9.9	9.8	9.2	9.4	9.3	9.3
92-73	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.9	9.6	9.9	9.9
93-36	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.9	10.0	9.0
93-39	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.9	9.5	9.8	9.5	9.9
93-40	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.7	9.0	9.8	9.9
93-42	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.9	9.9
93-46	10.0	10.0	10.0	10.0	10.0	10.0	9.9	9.9	9.9	9.8	9.6	9.8
93-59	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.9	9.9	9.9
93-68	10.0	10.0	9.9	10.0	10.0	9.9	10.0	9.7	9.0	9.7	9.6	9.7
Thermoplastic-Hydrocarbon, White												
92-14	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.9	9.5	9.2	9.2	9.0
92-75	10.0	10.0	9.7	10.0	10.0	10.0	10.0	9.9	9.9	9.9	9.9	9.8
92-76	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
93-32	10.0	10.0	10.0	10.0	10.0	10.0	9.9	8.0	7.7	7.4	6.1	7.1
93-44	10.0	10.0	10.0	10.0	10.0	10.0	9.9	9.9	9.1	9.5	9.4	9.5
93-66	10.0	10.0	9.9	10.0	10.0	10.0	10.0	9.9	9.9	9.7	9.6	9.8

TABLE 12. Durability Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Asphalt Pavement (Kentucky) (continued)

SAMPLE NUMBER	SUBJECTIVE RATINGS											
	JUN 1993	JUL 1993	AUG 1993	SEPT 1993	OCT 1993	NOV 1993	DEC 1993	JAN 1994	FEB 1994	MAR 1994	APR 1994	MAY 1994
Thermoplastic-Hydrocarbon, Yellow												
92-74	10.0	10.0	9.9	10.0	10.0	10.0	9.6	9.9	9.7	9.9	9.6	9.9
92-78	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.9	9.9
92-98	10.0	10.0	10.0	10.0	10.0	10.0	9.9	9.9	9.4	9.2	9.3	9.2
93-28	10.0	10.0	9.9	10.0	10.0	10.0	9.9	10.0	9.9	9.8	9.9	10.0
93-29	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.3	10.0	10.0	10.0
93-33	10.0	10.0	10.0	10.0	9.7	9.9	8.9	7.2	6.3	5.9	5.0	6.4
93-34	10.0	10.0	10.0	10.0	9.7	9.7	8.6	7.4	6.7	6.1	5.4	6.6
93-45	10.0	10.0	10.0	10.0	10.0	10.0	9.9	9.9	9.7	9.6	9.5	9.6
93-60	10.0	10.0	9.7	10.0	10.0	9.9	9.9	9.7	9.9	9.8	9.8	9.8
93-67	10.0	10.0	9.7	10.0	10.0	9.7	10.0	9.7	9.7	9.5	9.3	9.7
Thermoplastic-Preformed, White												
92-63	10.0	10.0	10.0	10.0	10.0	9.9	10.0	10.0	10.0	10.0	10.0	10.0
93-37	10.0	9.5	9.2	9.2	9.2	9.1	9.1	9.4	9.0	9.1	8.6	8.7
93-38	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
93-54	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
93-55	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Thermoplastic-Preformed, Yellow												
93-30	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
93-31	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Permanent Tape, White												
92-1	10.0	10.0	9.2	9.9	10.0	9.7	8.9	10.0	9.9	10.0	10.0	10.0
92-3	10.0	9.9	9.0	9.6	9.9	9.7	8.3	9.0	9.9	10.0	10.0	9.6
92-86	10.0	9.9	9.0	9.9	9.9	9.3	9.5	9.9	10.0	10.0	10.0	10.0
93-23	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
93-25	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.8	10.0	10.0	10.0	9.8

TABLE 12. Durability Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Asphalt Pavement (Kentucky) (continued)

SAMPLE NUMBER	SUBJECTIVE RATINGS											
	JUN 1993	JUL 1993	AUG 1993	SEPT 1993	OCT 1993	NOV 1993	DEC 1993	JAN 1994	FEB 1994	MAR 1994	APR 1994	MAY 1994
Permanent Tape, White (cont.)												
93-26	10.0	10.0	10.0	10.0	9.3	10.0	10.0	9.8	10.0	10.0	10.0	10.0
93-49	10.0	9.9	10.0	10.0	10.0	10.0	10.0	9.7	10.0	10.0	10.0	10.0
93-106	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
93-108	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Permanent Tape, Yellow												
92-2	10.0	10.0	9.2	9.7	10.0	9.7	8.5	9.8	9.9	10.0	10.0	10.0
92-85	10.0	10.0	9.5	9.9	10.0	9.9	10.0	10.0	10.0	10.0	10.0	10.0
93-17	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
93-24	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
93-27	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.9
93-48	10.0	10.0	10.0	10.0	10.0	10.0	9.3	9.1	9.9	10.0	10.0	10.0
93-107	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.2	10.0	10.0	10.0
93-109	10.0	10.0	9.3	10.0	10.0	10.0	10.0	10.0	9.3	10.0	10.0	10.0
Temporary Tape, White												
92-92	10.0	9.7	8.7	8.2	8.0	9.2	8.0	8.9	7.6	7.0	5.8	6.4
93-56	10.0	9.5	8.8	7.5	7.1	8.0	7.0	8.3	7.1	5.9	5.8	6.0
Temporary Tape, Yellow												
92-90	10.0	9.7	8.0	7.7	7.1	7.5	6.5	6.5	6.0	6.4	5.1	5.7
93-57	10.0	9.4	8.3	8.2	6.4	7.9	5.9	6.6	5.9	6.3	5.1	5.7
93-64	10.0	9.4	8.3	8.0	7.0	7.6	6.3	6.5	5.5	6.0	5.2	5.5

TABLE 13. Durability Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Portland Cement Concrete Pavement (Kentucky)

SAMPLE NUMBER	SUBJECTIVE RATINGS											
	JUN 1993	JUL 1993	AUG 1993	SEPT 1993	OCT 1993	NOV 1993	DEC 1993	JAN 1994	FEB 1994	MAR 1994	APR 1994	MAY 1994
Paint-Solvent, White (60 sec)												
92-17	10.0	10.0	10.0	10.0	10.0	9.9	9.4	9.3	7.9	7.0	6.8	6.6
92-39	10.0	10.0	9.5	9.7	9.3	9.0	9.3	8.2	6.9	6.7	5.9	5.9
92-48	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.6	8.6	8.1	7.7	7.6
92-50	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.3	8.3	7.0	7.0	6.3
93-3	10.0	10.0	8.9	9.0	9.1	8.7	8.9	7.8	6.5	5.9	4.9	5.1
93-9	10.0	10.0	10.0	10.0	10.0	9.9	9.7	9.5	7.7	7.1	6.5	6.1
93-12	10.0	10.0	10.0	10.0	10.0	8.6	9.5	9.5	8.3	7.3	5.9	7.2
93-75	10.0	10.0	10.0	10.0	10.0	9.7	9.9	9.1	8.0	7.1	7.3	7.2
93-77	10.0	10.0	10.0	9.9	10.0	10.0	9.9	9.4	8.3	5.9	7.2	7.2
93-79	10.0	10.0	10.0	9.9	9.9	9.7	9.5	9.6	8.4	7.0	7.1	7.6
93-95	10.0	10.0	9.9	10.0	10.0	9.9	9.5	9.3	7.3	7.1	7.1	7.0
93-99	10.0	10.0	9.9	9.7	10.0	9.5	9.9	9.5	8.9	8.2	7.8	8.2
93-101	10.0	10.0	10.0	8.9	10.0	9.4	10.0	9.4	8.3	7.4	7.2	7.2
93-113	10.0	10.0	10.0	10.0	9.7	9.4	9.7	9.1	8.2	7.2	7.3	7.1
Paint-Solvent, Yellow (60 sec)												
92-18	10.0	10.0	10.0	9.9	10.0	8.9	9.5	9.6	8.3	8.0	6.0	7.8
92-19	10.0	10.0	10.0	10.0	9.9	10.0	9.9	9.4	8.5	7.6	7.6	7.3
92-20	10.0	10.0	10.0	8.8	10.0	9.3	9.5	9.2	8.4	7.7	7.1	7.0
92-23	10.0	10.0	10.0	10.0	10.0	9.4	9.6	9.5	8.2	7.4	6.7	7.2
92-40	10.0	10.0	8.9	8.3	8.4	8.3	8.0	7.9	6.6	6.3	5.9	5.7
92-47	10.0	10.0	10.0	10.0	9.9	10.0	9.5	8.4	7.4	6.4	6.6	6.1
92-49	10.0	10.0	9.8	10.0	10.0	9.8	9.9	8.8	7.7	6.6	6.6	6.3
92-51	10.0	10.0	10.0	10.0	10.0	10.0	9.9	8.8	7.8	6.9	6.2	6.1
92-53	10.0	10.0	10.0	10.0	10.0	10.0	9.2	8.1	6.7	5.4	5.1	4.2
92-81	10.0	10.0	9.9	9.6	9.3	9.4	9.2	8.7	7.5	7.2	7.3	7.2

TABLE 13. Durability Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Portland Cement Concrete Pavement (Kentucky) (continued)

SAMPLE NUMBER	SUBJECTIVE RATINGS											
	JUN 1993	JUL 1993	AUG 1993	SEPT 1993	OCT 1993	NOV 1993	DEC 1993	JAN 1994	FEB 1994	MAR 1994	APR 1994	MAY 1994
Paint-Solvent, Yellow (60 sec) (cont.)												
93-4	10.0	10.0	9.2	9.2	9.1	9.0	9.2	8.3	7.0	7.3	6.8	7.0
93-10	10.0	10.0	10.0	10.0	10.0	10.0	9.9	9.1	8.2	7.3	7.2	6.3
93-11	10.0	10.0	10.0	9.9	10.0	10.0	9.9	9.4	8.6	8.2	8.1	7.7
93-13	10.0	10.0	10.0	9.9	10.0	9.9	9.5	9.3	7.8	7.5	7.4	7.1
93-76	10.0	10.0	10.0	10.0	9.7	9.7	9.2	9.0	8.0	8.0	7.8	7.8
93-78	10.0	9.9	9.9	9.9	9.7	9.5	9.2	8.7	7.9	7.4	7.5	7.3
93-80	10.0	10.0	9.4	10.0	9.9	9.7	9.3	9.2	8.1	7.9	7.6	7.6
93-93	10.0	10.0	9.5	9.4	9.3	9.3	9.0	8.6	7.1	7.2	6.9	7.1
93-94	10.0	10.0	9.7	9.4	9.3	9.3	9.0	9.0	7.3	7.2	7.1	7.0
93-98	10.0	10.0	10.0	10.0	10.0	10.0	9.3	8.6	6.8	6.3	5.9	5.8
93-100	10.0	10.0	10.0	10.0	10.0	9.9	9.2	8.0	6.8	5.9	5.4	5.5
93-112	10.0	10.0	10.0	9.9	9.3	8.3	8.8	8.9	7.4	6.1	6.4	6.2
Paint-Water, White (60 sec)												
92-24	10.0	9.5	9.4	9.6	9.3	9.4	8.8	8.5	7.4	7.5	7.4	7.5
92-30	10.0	6.5	7.3	6.4	7.0	6.7	6.2	6.6	5.7	6.3	5.9	5.8
92-33	10.0	10.0	10.0	9.7	9.9	9.7	9.3	8.8	7.8	7.5	7.0	7.3
92-41	10.0	10.0	10.0	10.0	10.0	10.0	9.6	8.9	7.3	7.6	7.0	7.3
92-46	10.0	10.0	10.0	10.0	10.0	9.9	10.0	9.7	8.9	8.5	7.9	8.3
92-54	10.0	10.0	9.7	9.9	9.3	9.3	9.2	8.4	6.6	6.7	6.3	6.3
92-56	10.0	10.0	10.0	10.0	10.0	9.9	9.9	9.1	7.5	7.4	7.3	7.2
92-58	10.0	10.0	9.9	9.6	9.6	8.8	9.2	8.9	6.4	6.8	6.1	5.9
92-64	10.0	10.0	10.0	10.0	10.0	9.4	9.7	9.4	8.0	7.4	6.3	6.0
92-80	10.0	9.9	9.7	9.9	9.7	9.7	9.1	8.4	7.0	7.0	7.0	7.0
93-1	10.0	10.0	10.0	10.0	10.0	10.0	9.7	8.8	6.8	6.0	5.1	5.0
93-14	10.0	10.0	9.7	9.9	10.0	9.8	9.9	9.6	8.2	8.3	8.4	8.0

TABLE 13. Durability Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Portland Cement Concrete Pavement(Kentucky) (continued)

SAMPLE NUMBER	SUBJECTIVE RATINGS											
	JUN 1993	JUL 1993	AUG 1993	SEPT 1993	OCT 1993	NOV 1993	DEC 1993	JAN 1994	FEB 1994	MAR 1994	APR 1994	MAY 1994
Paint-Water, White (60 sec) (cont.)												
93-81	10.0	9.9	9.7	9.5	9.5	8.8	9.2	9.1	7.5	7.3	7.5	7.6
93-84	10.0	10.0	10.0	9.9	9.9	9.9	9.7	9.0	8.0	7.4	7.3	7.6
93-87	10.0	8.1	8.8	8.0	8.1	7.2	7.7	7.7	6.4	6.7	6.7	6.5
93-92	10.0	10.0	9.7	9.9	9.7	9.3	9.2	8.3	6.8	6.9	6.9	7.0
93-97	10.0	10.0	10.0	10.0	10.0	10.0	9.9	9.1	7.7	8.0	7.9	8.0
93-103	10.0	10.0	10.0	10.0	10.0	10.0	9.9	9.5	8.2	8.3	8.3	8.3
Paint-Water, Yellow (60 sec)												
92-25	10.0	7.7	7.4	6.7	6.5	6.6	6.5	6.9	5.9	6.0	5.8	5.8
92-26	10.0	9.8	9.9	9.6	9.3	9.2	8.7	8.3	7.2	7.3	7.3	7.3
92-27	10.0	6.5	6.3	6.3	6.0	6.1	5.9	6.6	4.9	5.3	4.9	4.9
92-28	10.0	7.8	7.9	7.6	7.8	7.5	7.6	7.5	6.8	7.0	6.9	6.5
92-29	10.0	6.4	6.8	6.9	6.7	6.3	6.5	6.7	5.8	5.9	5.9	5.7
92-31	10.0	8.9	8.7	8.8	8.6	8.3	8.4	8.3	7.3	7.1	7.2	7.4
92-34	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.6	8.9	8.7	7.4	8.1
92-42	10.0	10.0	10.0	10.0	9.5	9.3	9.2	8.9	7.7	7.6	7.3	7.3
92-43	10.0	10.0	10.0	10.0	9.6	9.3	9.2	9.1	7.6	7.2	7.0	7.0
92-55	10.0	9.0	8.9	8.5	8.5	8.2	8.0	7.4	6.3	6.6	6.3	6.2
92-57	10.0	10.0	9.8	9.7	9.2	9.2	8.5	8.3	7.0	6.7	6.4	6.2
92-59	10.0	9.5	9.0	8.9	8.4	8.3	7.7	7.5	6.0	6.4	6.2	6.3
92-60	10.0	9.1	8.6	8.5	8.4	8.0	7.9	7.3	6.3	6.5	6.2	6.3
92-61	10.0	10.0	9.7	9.3	8.9	8.8	8.7	8.2	6.8	7.0	6.9	6.8
92-62	10.0	9.4	8.6	8.3	7.9	7.8	7.5	7.3	6.0	6.4	5.9	6.2
92-65	10.0	10.0	10.0	10.0	9.9	9.7	9.3	8.8	7.6	6.7	6.8	6.9
92-79	10.0	9.9	9.5	9.5	9.2	9.2	8.9	8.3	7.1	7.0	7.0	6.9
92-82	10.0	8.7	8.7	8.3	8.2	8.6	8.0	7.6	6.4	6.3	6.3	6.3

TABLE 13. Durability Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Portland Cement Concrete Pavement (Kentucky) (continued)

SAMPLE NUMBER	SUBJECTIVE RATINGS											
	JUN 1993	JUL 1993	AUG 1993	SEPT 1993	OCT 1993	NOV 1993	DEC 1993	JAN 1994	FEB 1994	MAR 1994	APR 1994	MAY 1994
Paint-Water, Yellow (60 sec) (cont.)												
92-83	10.0	9.5	9.5	9.3	9.1	8.9	8.7	8.4	7.1	7.0	6.9	6.7
92-84	10.0	9.9	9.9	9.7	9.4	8.9	8.7	8.3	7.1	7.0	6.8	6.5
93-2	10.0	10.0	10.0	9.9	9.3	9.0	8.6	8.5	6.3	5.2	4.5	4.3
93-8	10.0	10.0	10.0	9.7	9.7	9.3	9.2	9.1	7.9	7.8	7.6	7.6
93-15	10.0	9.1	9.0	8.9	8.9	9.2	8.9	8.6	7.8	7.6	7.4	7.5
93-82	10.0	7.2	7.2	7.2	7.5	7.2	7.1	7.1	5.9	5.3	5.9	5.5
93-83	10.0	8.5	8.2	9.2	8.3	8.6	8.0	8.1	6.7	7.0	7.2	7.0
93-85	10.0	10.0	10.0	9.9	9.9	9.7	9.3	9.1	7.9	7.9	7.5	7.6
93-86	10.0	10.0	10.0	9.9	9.8	9.7	9.2	8.5	7.2	7.2	7.4	7.3
93-88	10.0	9.2	9.1	9.4	8.8	9.1	8.6	8.3	6.9	7.0	7.3	7.0
93-89	10.0	7.2	7.4	8.5	7.3	7.9	7.6	7.7	6.4	6.8	7.0	6.6
93-90	10.0	9.9	9.8	9.8	9.3	9.2	8.8	8.3	7.3	7.3	7.3	7.1
93-91	10.0	10.0	9.8	9.7	9.3	9.0	9.0	8.4	7.5	7.3	7.2	7.1
93-96	10.0	9.0	8.3	8.3	7.7	7.8	7.5	7.2	5.9	6.3	5.9	5.9
93-102	10.0	10.0	9.6	9.5	9.4	9.1	8.8	8.3	7.0	7.2	7.0	6.8
93-104	10.0	10.0	10.0	9.9	9.5	9.3	9.0	8.3	7.2	7.3	7.2	7.0
93-105	10.0	9.4	9.0	8.5	8.3	8.3	8.2	7.6	6.7	7.0	6.7	6.6
Paint-Polyester, White												
92-6	10.0	9.9	9.9	9.5	9.2	8.5	7.6	7.9	6.6	6.4	6.4	6.3
92-8	10.0	9.9	9.7	9.5	8.9	7.6	6.5	4.2	3.0	4.0	1.7	1.5
92-10	10.0	10.0	9.5	9.3	8.9	7.9	5.7	4.9	3.3	4.2	2.7	2.4
92-36	10.0	9.3	9.3	8.7	8.2	8.4	8.2	8.3	7.4	8.0	6.9	7.4
93-5	10.0	9.2	8.9	8.6	8.5	7.6	7.5	8.1	7.2	7.4	7.7	7.4
93-70	10.0	9.9	10.0	9.9	8.9	9.4	8.9	8.4	7.7	8.2	8.2	8.0
93-73	10.0	10.0	10.0	9.9	9.9	9.3	9.7	9.4	7.9	8.1	8.2	8.1

TABLE 13. Durability Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Portland Cement Concrete Pavement(Kentucky) (continued)

SAMPLE NUMBER	SUBJECTIVE RATINGS											
	JUN 1993	JUL 1993	AUG 1993	SEPT 1993	OCT 1993	NOV 1993	DEC 1993	JAN 1994	FEB 1994	MAR 1994	APR 1994	MAY 1994
Paint-Polyester, Yellow												
92-7	10.0	9.9	9.2	9.2	9.2	9.4	8.7	8.9	8.0	7.9	7.7	7.8
92-9	10.0	9.3	8.8	8.4	7.6	6.7	4.5	2.6	1.5	1.5	3.1	2.7
92-11	10.0	9.2	7.3	7.0	6.5	7.3	4.8	2.7	2.1	1.7	3.2	1.3
92-37	10.0	8.7	8.3	7.6	7.8	7.9	7.3	7.8	7.0	6.9	6.9	6.9
92-38	10.0	9.0	8.9	8.2	7.9	7.8	8.0	7.9	7.1	7.4	7.1	7.1
93-6	10.0	9.0	8.6	8.1	7.4	6.9	7.0	7.5	6.9	7.0	7.0	7.0
93-7	10.0	8.9	8.1	7.5	6.9	7.2	6.4	6.7	5.9	6.0	5.7	5.5
93-71	10.0	9.7	9.0	8.9	9.0	9.0	8.5	8.3	7.1	7.3	7.0	7.0
93-72	10.0	9.9	9.5	9.3	8.8	9.1	8.5	8.2	6.5	6.5	5.5	5.3
93-74	10.0	9.9	9.4	9.1	8.9	8.7	8.4	8.4	7.4	6.9	7.3	6.8
Paint-Methyl Methacrylate Polymer, White												
92-66	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
92-68	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
92-71	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.8	10.0	10.0	10.0
Paint-Methyl Methacrylate Polymer, Yellow												
92-44	10.0	9.5	8.1	7.6	7.5	7.2	7.1	7.1	6.4	6.1	6.1	6.5
92-67	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.3	10.0
92-69	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.3	10.0
92-70	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.8	9.9	10.0	9.9
Paint-Multipolymer, White												
92-97	10.0	10.0	10.0	9.9	10.0	10.0	10.0	10.0	9.4	10.0	10.0	10.0
Paint-Multipolymer, Yellow												
92-99	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0

TABLE 13. Durability Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Portland Cement Concrete Pavement(Kentucky) (continued)

SAMPLE NUMBER	SUBJECTIVE RATINGS											
	JUN 1993	JUL 1993	AUG 1993	SEPT 1993	OCT 1993	NOV 1993	DEC 1993	JAN 1994	FEB 1994	MAR 1994	APR 1994	MAY 1994
Thermoplastic-Alkyd, White												
92-22	10.0	10.0	9.9	10.0	9.9	9.8	9.9	9.7	8.3	8.5	8.3	8.2
92-72	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.9	9.9	9.9	9.8
93-35	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.0	9.5	9.6	9.4
93-41	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.8	8.9	9.3	9.4	9.4
93-43	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.7	9.9	9.9	9.9
93-47	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	8.9	9.5	9.7	9.6
93-58	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.4	9.4	9.5	9.5	9.4
93-69	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.0	9.6	9.6	9.4
Thermoplastic-Alkyd, Yellow												
92-21	10.0	10.0	9.9	10.0	9.9	9.7	9.5	9.9	8.7	9.7	9.7	9.4
92-73	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.4	9.2	9.1	8.9
93-36	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.8	10.0	10.0	9.9
93-39	10.0	10.0	10.0	10.0	9.6	10.0	9.7	9.9	9.3	9.3	9.1	9.2
93-40	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.9	9.4	9.6	9.9	9.9
93-42	10.0	10.0	10.0	10.0	9.5	10.0	10.0	9.9	9.4	9.7	9.6	9.7
93-46	10.0	10.0	10.0	10.0	10.0	10.0	9.9	9.8	9.4	9.3	9.4	9.3
93-59	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.9	9.8	9.7	9.6	9.6
93-68	10.0	10.0	9.9	10.0	10.0	10.0	10.0	10.0	9.6	9.9	9.9	9.8
Thermoplastic-Hydrocarbon, White												
92-14	10.0	10.0	9.9	10.0	10.0	10.0	9.9	9.6	8.5	8.4	8.4	8.4
92-75	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.9	9.3	9.5	9.5	9.6
93-32	10.0	10.0	10.0	10.0	9.9	9.0	8.5	8.0	5.6	5.3	4.6	5.0
93-44	10.0	10.0	9.8	10.0	10.0	9.9	9.8	9.9	8.7	9.1	9.1	9.2
93-66	10.0	10.0	9.7	10.0	10.0	10.0	10.0	9.9	9.1	9.5	9.5	9.4

TABLE 13. Durability Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Portland Cement Concrete Pavement(Kentucky) (continued)

SAMPLE NUMBER	SUBJECTIVE RATINGS											
	JUN 1993	JUL 1993	AUG 1993	SEPT 1993	OCT 1993	NOV 1993	DEC 1993	JAN 1994	FEB 1994	MAR 1994	APR 1994	MAY 1994
Thermoplastic-Hydrocarbon, Yellow												
92-74	10.0	10.0	9.9	10.0	10.0	10.0	10.0	9.9	8.6	8.9	9.0	9.0
92-98	10.0	10.0	10.0	10.0	10.0	9.9	9.9	9.5	8.3	8.4	7.9	8.0
93-28	10.0	10.0	9.9	10.0	10.0	10.0	10.0	10.0	8.7	9.4	9.4	9.4
93-29	10.0	10.0	10.0	10.0	9.8	10.0	10.0	9.4	7.9	7.5	7.1	7.1
93-33	10.0	10.0	9.9	9.5	9.7	8.0	7.7	7.4	5.0	4.4	3.6	3.3
93-34	10.0	10.0	9.8	9.5	9.7	7.5	7.1	6.7	5.0	4.3	3.6	3.1
93-45	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	8.4	9.4	9.4	9.7
93-60	10.0	10.0	9.7	10.0	10.0	10.0	10.0	9.9	9.0	9.5	9.6	9.6
93-67	10.0	10.0	10.0	10.0	10.0	9.8	9.7	9.4	8.3	8.3	8.2	8.3
Thermoplastic-Preformed, White												
92-63	10.0	9.7	9.5	10.0	10.0	9.4	9.5	9.4	8.4	9.4	9.4	9.7
93-37	10.0	10.0	10.0	10.0	10.0	9.6	10.0	10.0	9.9	9.9	9.9	9.9
93-38	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.9	9.9
93-54	10.0	9.7	10.0	10.0	10.0	10.0	10.0	10.0	8.9	9.9	10.0	9.9
93-55	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	8.6	9.8	10.0	9.5
Thermoplastic-Preformed, Yellow												
93-30	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.9	10.0	10.0	10.0
93-31	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.9	10.0	10.0	9.9
Permanent Tape, White												
92-1	10.0	10.0	9.7	10.0	9.7	9.5	10.0	10.0	9.8	9.9	9.7	9.4
92-3	10.0	10.0	9.7	9.9	9.7	9.5	10.0	8.7	10.0	10.0	10.0	9.9
92-86	10.0	10.0	9.5	10.0	9.7	9.7	9.5	10.0	10.0	10.0	9.2	10.0
93-23	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
93-25	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
93-26	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0

TABLE 13. Durability Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Portland Cement Concrete Pavement (Kentucky) (continued)

SAMPLE NUMBER	SUBJECTIVE RATINGS											
	JUN 1993	JUL 1993	AUG 1993	SEPT 1993	OCT 1993	NOV 1993	DEC 1993	JAN 1994	FEB 1994	MAR 1994	APR 1994	MAY 1994
Permanent Tape, White (cont.)												
93-49	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
93-106	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
93-108	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Permanent Tape, Yellow												
92-2	10.0	10.0	9.7	10.0	9.9	9.9	10.0	9.2	10.0	10.0	9.8	9.5
92-85	10.0	10.0	9.9	10.0	9.9	10.0	10.0	10.0	10.0	10.0	10.0	10.0
93-17	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
93-24	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
93-27	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
93-48	9.3	10.0	10.0	10.0	10.0	10.0	9.5	9.5	9.7	9.7	9.7	9.7
93-107	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
93-109	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Temporary Tape, White												
92-92	10.0	10.0	9.2	8.2	7.7	8.2	8.5	8.8	7.4	6.5	6.3	6.1
93-56	10.0	9.1	8.2	8.2	8.1	8.3	8.2	9.2	7.7	6.5	7.6	6.7
Temporary Tape, Yellow												
92-90	10.0	10.0	8.4	8.2	8.0	7.8	6.6	7.1	6.4	6.3	5.7	5.7
93-57	10.0	9.1	7.9	7.4	7.4	7.9	7.0	7.0	6.5	6.4	5.8	5.5
93-64	10.0	8.2	8.0	7.3	7.4	8.0	6.8	6.8	7.4	6.3	6.7	6.7

TABLE 14. Appearance Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Asphalt Pavement (Kentucky)

SAMPLE NUMBER	SUBJECTIVE RATINGS											
	JUN 1993	JUL 1993	AUG 1993	SEPT 1993	OCT 1993	NOV 1993	DEC 1993	JAN 1994	FEB 1994	MAR 1994	APR 1994	MAY 1994
Paint-Solvent, White (60 sec)												
92-17	9.4	9.0	8.4	8.2	7.5	7.3	7.0	7.5	7.5	7.0	7.0	6.4
92-39	10.0	9.3	8.4	8.0	7.8	7.7	7.2	8.0	7.4	7.5	7.7	7.0
92-48	9.9	9.2	7.7	7.2	6.9	7.1	7.0	7.0	7.0	6.9	6.7	6.2
92-50	9.9	9.2	8.0	7.5	7.2	7.2	7.2	7.2	7.2	7.2	7.0	6.6
93-3	10.0	9.2	8.9	7.5	7.2	7.2	7.2	7.9	7.5	7.7	7.5	7.2
93-9	9.7	9.2	8.2	7.2	7.0	6.9	6.9	6.9	6.9	6.5	6.4	5.9
93-12	10.0	9.3	8.5	7.4	7.5	7.2	7.0	7.3	7.0	6.9	7.0	6.6
93-75	9.9	8.5	7.8	8.0	7.5	7.1	7.0	7.7	7.2	7.2	7.0	6.7
93-77	9.9	9.0	7.9	7.5	7.4	6.9	7.0	7.5	7.0	7.3	7.2	6.8
93-79	9.9	9.2	7.9	7.5	7.7	7.4	7.4	7.4	7.4	7.4	7.4	7.1
93-95	9.4	8.4	7.9	7.7	7.4	7.0	7.0	7.3	7.2	7.2	7.2	6.8
93-99	9.9	9.2	7.7	7.5	7.2	7.3	7.0	7.3	7.0	7.2	7.2	6.4
93-101	9.9	9.2	8.2	8.0	7.5	7.1	7.2	7.2	7.2	7.2	7.0	6.7
93-113	9.9	8.3	7.4	7.2	7.2	7.1	7.0	7.0	6.9	7.0	6.9	6.6
Paint-Solvent, Yellow (60 sec)												
92-18	9.9	9.2	8.9	7.8	7.7	7.3	7.0	7.3	7.0	7.0	7.0	6.5
92-19	10.0	9.2	8.2	8.3	7.9	7.5	8.2	7.9	7.5	7.7	6.3	6.2
92-20	9.9	9.2	8.3	8.2	7.9	7.5	7.7	7.7	7.7	7.5	6.9	6.6
92-23	9.2	7.5	7.3	6.7	6.0	6.5	7.3	6.5	6.7	6.7	6.3	6.3
92-40	10.0	9.3	9.5	8.7	8.7	8.5	8.7	9.2	8.9	8.4	8.2	8.0
92-47	9.5	9.3	8.7	8.4	8.2	8.0	8.2	8.2	7.9	7.9	8.0	8.0
92-49	10.0	8.7	8.3	8.2	7.7	7.4	7.9	7.0	7.2	7.2	6.7	6.9
92-51	9.5	8.5	8.3	8.0	7.9	7.2	7.4	7.0	7.0	7.0	6.3	6.7
92-53	9.5	8.3	8.2	7.7	7.7	7.2	7.0	7.2	7.0	6.9	6.3	6.2
92-81	9.5	8.7	7.9	8.2	8.3	8.3	8.3	8.0	8.3	7.7	6.9	6.5

TABLE 14. Appearance Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Asphalt Pavement (Kentucky) (continued)

SAMPLE NUMBER	SUBJECTIVE RATINGS											
	JUN 1993	JUL 1993	AUG 1993	SEPT 1993	OCT 1993	NOV 1993	DEC 1993	JAN 1994	FEB 1994	MAR 1994	APR 1994	MAY 1994
Paint-Solvent, Yellow (60 sec) (cont.)												
93-4	10.0	9.4	9.3	8.7	8.5	8.3	8.5	9.0	8.7	8.5	8.5	8.3
93-10	7.4	6.7	6.5	6.3	5.9	5.5	5.5	6.0	6.0	6.4	5.7	5.3
93-11	9.7	9.0	8.5	8.4	7.9	7.4	7.3	6.9	6.9	6.9	6.3	6.3
93-13	9.4	8.3	7.8	7.5	7.5	6.5	7.3	7.0	6.9	6.5	6.5	6.3
93-76	9.7	9.3	9.0	8.9	8.5	8.2	8.9	8.9	8.3	8.2	7.9	8.0
93-78	9.9	9.3	9.0	8.7	8.0	8.0	8.7	8.7	7.3	8.0	8.0	8.0
93-80	10.0	9.3	8.7	8.7	7.9	7.9	8.5	8.4	7.9	7.9	7.9	7.9
93-93	9.3	8.7	8.0	8.2	8.3	8.3	8.3	8.2	8.3	7.9	6.9	6.5
93-94	9.1	9.3	8.9	9.0	9.0	9.0	9.0	8.9	9.0	8.7	8.6	8.7
93-98	9.2	8.5	7.9	7.2	6.9	6.2	6.5	6.3	6.7	6.3	6.3	6.4
93-100	9.2	8.2	7.7	7.0	6.8	6.2	6.7	6.3	6.7	6.3	6.3	6.3
93-112	10.0	9.0	8.9	8.4	7.5	7.4	7.7	7.7	7.7	7.5	7.0	6.7
Paint-Water White (60 sec)												
92-33	9.9	9.0	8.2	7.5	7.3	6.9	7.0	7.0	7.0	6.9	6.7	6.5
92-41	10.0	9.3	9.4	8.7	8.5	8.2	8.0	8.5	8.0	7.5	7.7	7.5
92-46	10.0	9.2	8.2	8.2	8.0	7.3	7.3	7.0	7.4	7.0	6.9	6.1
92-54	9.7	8.9	8.5	7.3	7.2	7.0	7.0	7.0	6.9	6.9	6.5	6.4
92-56	9.7	9.2	8.2	7.3	7.3	7.0	7.0	7.3	7.0	7.4	7.0	6.4
92-58	9.5	9.2	8.7	7.7	8.0	7.3	7.3	7.7	7.5	7.0	7.2	6.9
92-64	9.2	8.5	7.7	7.0	7.0	6.9	6.5	7.0	6.5	6.9	6.5	6.3
92-80	9.9	8.7	7.8	7.5	7.3	7.2	7.0	7.3	7.4	6.9	7.0	6.6
93-1	10.0	9.2	8.9	7.9	8.2	8.0	7.9	8.7	8.2	7.3	7.9	7.8
93-14	9.9	8.4	7.8	7.4	7.3	7.1	7.2	7.7	7.7	7.2	7.2	7.0
93-81	9.5	8.9	8.0	8.0	7.3	7.3	7.0	7.9	7.3	7.2	7.0	6.7
93-84	9.7	9.0	8.0	7.5	7.5	7.4	7.4	7.9	7.5	7.4	7.5	7.3

TABLE 14. Appearance Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Asphalt Pavement (Kentucky) (continued)

SAMPLE NUMBER	SUBJECTIVE RATINGS											
	JUN 1993	JUL 1993	AUG 1993	SEPT 1993	OCT 1993	NOV 1993	DEC 1993	JAN 1994	FEB 1994	MAR 1994	APR 1994	MAY 1994
Paint-Water White (60 sec) (cont.)												
93-87	9.7	8.9	8.4	7.7	7.7	5.8	7.2	7.5	7.2	7.2	7.0	6.6
93-92	9.9	8.7	7.8	7.5	7.3	7.5	7.0	7.3	7.2	7.0	7.0	6.6
93-97	10.0	9.0	8.5	7.5	7.3	7.2	7.2	7.2	7.9	7.0	7.0	6.8
93-103	9.9	9.0	8.5	7.8	8.0	7.7	7.0	7.5	7.0	6.9	7.2	6.7
Paint-Water, Yellow (60 sec)												
92-25	10.0	9.2	8.7	8.4	8.7	8.2	8.3	8.5	8.7	8.0	8.0	7.7
92-26	10.0	9.2	8.7	8.0	8.3	7.9	7.9	8.2	8.2	7.9	7.5	7.7
92-27	10.0	9.2	8.9	8.4	8.7	8.0	8.3	8.7	8.7	8.0	7.9	7.8
92-28	9.4	8.2	7.8	7.7	7.7	7.2	7.3	7.2	7.6	7.0	7.0	6.9
92-29	9.9	9.0	8.7	8.4	8.3	7.9	8.2	8.4	8.2	7.7	7.9	7.7
92-31	9.3	8.9	8.5	8.2	8.2	7.9	8.2	8.4	8.5	7.5	7.7	7.5
92-34	10.0	9.7	9.7	9.3	9.0	9.2	9.0	9.2	9.0	8.7	8.7	8.9
92-42	10.0	9.7	9.7	9.3	9.2	9.2	9.0	9.2	9.0	8.7	8.3	8.3
92-43	10.0	9.9	9.7	9.2	9.2	9.0	9.0	9.3	9.2	8.7	8.5	8.8
92-55	9.5	8.9	8.7	8.9	8.2	7.7	7.9	7.9	8.0	7.5	7.3	7.3
92-57	9.7	8.5	7.9	7.7	7.4	7.3	7.4	6.9	7.2	6.9	6.2	6.4
92-59	9.9	8.9	9.0	8.5	8.9	8.5	8.5	8.3	8.3	8.0	7.5	7.9
92-60	9.5	9.0	8.7	8.0	8.0	7.9	7.9	8.0	7.9	7.7	7.5	7.5
92-61	9.5	9.0	8.7	7.5	7.5	7.3	7.7	7.4	7.3	7.0	7.2	6.8
92-62	9.3	9.2	8.9	8.5	8.5	8.3	8.3	8.7	8.7	7.9	7.9	7.9
92-65	9.2	8.9	8.3	8.4	8.0	7.9	8.0	7.9	7.3	7.2	6.9	6.9
92-79	9.7	9.5	8.9	9.0	9.0	8.5	8.7	9.0	8.9	8.2	8.3	8.6
92-82	9.5	9.0	8.3	8.3	8.3	8.3	8.3	8.7	8.3	8.2	8.0	8.0
92-83	9.5	9.0	8.3	8.3	8.3	8.2	8.0	8.4	8.0	7.5	7.7	7.7
92-84	9.5	9.0	8.3	8.3	8.0	8.2	8.0	8.4	8.0	7.5	7.7	7.7

TABLE 14. Appearance Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Asphalt Pavement (Kentucky) (continued)

SAMPLE NUMBER	SUBJECTIVE RATINGS											
	JUN 1993	JUL 1993	AUG 1993	SEPT 1993	OCT 1993	NOV 1993	DEC 1993	JAN 1994	FEB 1994	MAR 1994	APR 1994	MAY 1994
Paint-Water, Yellow (60 sec)												
93-2	9.9	9.2	8.7	8.3	8.3	8.0	8.3	8.3	8.2	8.0	8.0	8.4
93-8	9.5	9.0	8.4	7.7	7.5	7.3	7.3	7.7	7.6	7.2	7.3	7.0
93-15	10.0	8.7	8.3	7.5	7.5	7.3	7.3	7.7	7.7	7.3	7.2	7.4
93-82	9.2	8.9	8.5	8.5	8.0	8.3	8.5	8.3	8.4	8.0	7.9	7.9
93-83	9.2	8.7	8.2	8.2	8.3	8.3	8.3	8.2	8.3	7.7	8.0	8.0
93-85	10.0	9.3	8.7	8.7	8.2	7.7	8.0	8.4	8.0	7.7	7.5	7.6
93-86	9.9	9.2	8.7	7.7	7.7	7.3	7.7	8.0	7.7	7.3	7.3	7.5
93-88	9.2	8.7	8.2	8.2	8.3	8.2	8.2	7.9	8.0	7.9	7.9	7.7
93-89	9.2	8.7	8.2	8.2	8.2	8.0	8.5	8.0	8.3	7.7	7.7	7.8
93-90	9.5	9.0	8.3	8.3	8.3	8.3	8.0	8.2	8.0	7.5	7.7	7.7
93-91	9.5	9.2	8.3	8.5	8.3	8.3	8.2	8.7	8.2	7.8	8.0	7.9
93-96	9.3	9.2	8.7	8.3	8.3	8.0	8.0	8.2	8.3	7.5	7.5	7.5
93-102	9.3	9.2	8.7	8.3	8.2	8.0	8.2	8.0	8.0	7.5	7.7	7.4
93-104	9.9	9.2	9.2	8.9	9.0	8.4	8.7	8.7	8.7	8.0	8.0	8.0
93-105	10.0	9.3	9.2	8.9	9.0	8.4	8.7	7.9	8.1	8.0	8.0	8.2
Paint-Polyester, White												
92-6	9.7	8.9	8.5	8.2	8.0	7.7	7.9	8.7	8.0	7.7	7.9	7.3
92-8	9.9	9.3	8.9	7.9	7.9	7.7	8.0	8.5	7.9	7.7	7.7	7.3
92-10	9.5	8.7	8.7	7.5	7.7	7.7	7.7	8.3	8.0	7.5	7.7	7.2
92-36	10.0	9.3	9.0	8.3	8.5	8.3	8.5	9.2	8.7	8.3	8.7	8.3
93-5	9.7	9.3	9.2	8.7	8.5	8.7	8.7	9.3	8.7	8.5	8.5	8.2
93-70	9.9	9.3	9.2	8.7	8.4	8.4	8.2	8.7	8.0	8.0	7.7	7.3
93-73	8.7	8.2	7.7	6.9	6.8	6.5	6.5	7.2	6.5	6.5	6.3	6.3

TABLE 14. Appearance Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Asphalt Pavement (Kentucky) (continued)

SAMPLE NUMBER	SUBJECTIVE RATINGS											
	JUN 1993	JUL 1993	AUG 1993	SEPT 1993	OCT 1993	NOV 1993	DEC 1993	JAN 1994	FEB 1994	MAR 1994	APR 1994	MAY 1994
Paint-Polyester, Yellow												
92-7	8.6	9.2	8.9	8.7	8.3	8.5	8.7	8.9	8.5	7.7	8.0	7.9
92-9	9.0	9.3	8.7	8.3	7.3	7.9	7.9	8.7	7.9	7.6	7.7	7.6
92-11	9.9	9.3	9.0	8.7	8.3	8.3	8.3	8.9	8.2	7.7	8.0	7.9
92-37	9.7	9.0	9.3	9.0	8.7	8.0	8.7	8.0	8.3	8.3	8.3	7.1
92-38	8.2	7.2	6.9	6.9	6.5	6.0	6.7	6.5	6.4	6.5	6.5	6.5
93-6	7.9	7.0	6.9	6.5	6.0	6.0	5.9	5.9	6.2	6.0	6.0	5.7
93-7	9.5	8.9	8.5	8.2	8.2	7.7	7.9	7.5	7.5	7.0	7.0	7.3
93-71	8.7	8.5	7.7	7.7	7.2	7.0	7.4	6.7	6.8	7.0	6.7	6.8
93-72	9.0	8.7	8.0	8.2	7.9	7.5	7.5	7.3	7.7	7.3	7.2	7.2
93-74	9.3	9.3	8.3	8.7	8.5	7.7	8.4	8.2	8.4	7.5	7.8	7.8
Paint-Methyl Methacrylate Polymer, White												
92-66	10.0	8.2	7.2	7.5	7.4	7.2	7.4	8.0	7.7	7.5	7.5	6.7
92-68	10.0	7.9	7.0	7.4	6.8	6.5	7.0	7.3	7.3	7.2	7.4	7.0
92-71	10.0	8.2	7.0	6.9	6.7	6.4	6.5	7.0	7.0	7.0	6.9	6.7
Paint-Methyl Methacrylate Polymer, Yellow												
92-67	10.0	8.9	7.7	8.2	8.0	7.9	7.9	8.3	8.7	8.5	8.5	8.3
92-69	10.0	7.0	6.0	6.3	6.4	5.9	5.9	6.3	6.7	6.7	7.0	6.7
92-70	10.0	8.2	7.3	7.7	7.8	6.8	7.3	7.7	7.9	7.7	7.8	8.0
93-65	9.3	6.7	6.3	6.7	6.3	5.7	6.3	6.3	6.3	6.7	6.7	6.5
Paint-Multipolymer, White												
92-97	8.7	6.0	5.5	5.3	4.3	4.5	4.2	4.5	4.0	4.5	4.2	4.0
Paint-Multipolymer, Yellow												
99	9.5	8.0	7.0	7.5	7.5	6.5	5.9	6.5	6.0	6.3	5.7	8.9

TABLE 14. Appearance Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Asphalt Pavement (Kentucky) (continued)

SAMPLE NUMBER	SUBJECTIVE RATINGS											
	JUN 1993	JUL 1993	AUG 1993	SEPT 1993	OCT 1993	NOV 1993	DEC 1993	JAN 1994	FEB 1994	MAR 1994	APR 1994	MAY 1994
Thermoplastic-Alkyd, White												
92-22	10.0	9.0	7.9	7.7	7.5	7.2	7.5	8.0	7.5	7.7	7.9	7.7
92-72	10.0	9.5	8.9	8.7	8.5	8.3	8.4	8.9	8.2	7.8	8.5	8.2
93-35	9.9	8.8	7.9	8.2	8.0	8.0	8.0	8.5	8.2	8.0	8.2	8.2
93-41	9.9	8.2	7.5	7.5	7.7	7.0	7.2	8.0	7.5	7.5	7.7	7.3
93-43	9.7	8.9	8.0	8.0	8.1	7.5	7.3	7.3	7.3	7.3	7.2	6.9
93-47	9.9	8.5	7.9	7.4	7.0	7.2	7.2	7.7	7.2	7.4	7.2	6.9
93-58	9.9	9.2	8.5	8.3	8.3	8.4	8.5	8.9	8.4	7.7	8.5	8.1
93-69	9.6	8.5	8.2	7.8	7.9	7.7	7.7	7.9	7.5	7.5	7.4	7.2
Thermoplastic-Alkyd, Yellow												
92-21	9.5	8.5	7.9	8.0	8.4	8.0	8.5	8.2	8.2	7.9	8.0	8.1
92-73	10.0	9.5	8.9	9.0	8.7	8.7	8.7	9.2	8.7	8.7	8.0	8.7
93-36	10.0	8.9	7.9	7.7	8.2	7.3	7.3	7.7	7.3	7.7	7.9	7.3
93-39	9.5	7.7	6.9	7.2	7.2	7.3	7.3	7.5	7.5	7.2	7.2	6.9
93-40	10.0	9.0	7.9	8.2	8.0	8.0	8.3	8.3	8.3	8.2	8.3	8.2
93-42	9.7	9.0	8.3	8.0	8.2	8.0	8.0	8.2	8.0	8.0	8.2	8.3
93-46	8.9	8.2	7.5	7.8	7.4	7.5	7.7	7.7	7.5	7.7	7.9	7.5
93-59	9.9	9.4	8.7	9.0	8.7	8.7	8.7	9.0	8.7	8.7	8.3	8.7
93-68	9.7	8.8	7.8	8.0	8.0	8.2	8.3	8.7	8.3	8.2	8.3	8.3
Thermoplastic-Hydrocarbon, White												
92-14	9.7	7.5	7.7	7.7	7.7	7.7	7.7	8.0	7.7	7.7	7.7	7.5
92-75	9.9	9.5	8.9	8.5	8.3	8.4	8.4	8.7	8.3	8.3	8.4	8.2
92-76	9.3	9.7	8.9	8.5	8.5	8.7	8.9	8.9	8.3	8.6	8.4	8.3
93-32	10.0	8.5	8.0	7.9	8.3	7.8	8.0	8.4	6.9	7.9	7.9	7.9
93-44	9.9	8.5	8.2	7.7	8.0	7.5	7.3	7.7	7.5	7.5	7.3	7.0
93-66	8.3	6.7	6.2	6.5	6.5	6.2	6.7	6.5	6.5	6.9	6.7	6.5

TABLE 14. Appearance Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Asphalt Pavement (Kentucky) (continued)

SAMPLE NUMBER	SUBJECTIVE RATINGS											
	JUN 1993	JUL 1993	AUG 1993	SEPT 1993	OCT 1993	NOV 1993	DEC 1993	JAN 1994	FEB 1994	MAR 1994	APR 1994	MAY 1994
Thermoplastic-Hydrocarbon, Yellow												
92-74	9.9	9.0	8.7	8.9	8.7	8.7	8.7	8.7	8.5	8.3	8.3	8.5
92-78	10.0	9.2	8.7	8.5	8.5	8.7	8.9	8.7	8.7	8.5	8.3	8.3
92-98	9.7	7.7	7.7	7.9	8.0	7.9	8.2	7.9	8.0	7.9	7.7	7.6
93-28	8.9	7.0	6.4	6.3	6.9	7.0	7.0	6.4	6.5	6.5	6.5	6.7
93-29	9.3	8.5	7.9	8.0	7.9	7.9	8.0	8.0	7.9	7.9	7.8	8.1
93-33	10.0	9.3	8.7	8.9	9.0	8.5	8.7	8.5	8.3	8.0	8.2	8.0
93-34	8.9	7.0	6.7	6.5	6.9	6.9	7.3	6.5	6.5	6.2	6.3	6.5
93-45	9.0	8.8	7.9	8.3	8.0	8.0	8.2	8.3	8.0	8.0	8.3	8.0
93-60	9.7	9.0	8.3	8.5	8.2	8.5	8.7	8.4	8.2	8.2	8.2	8.2
93-67	9.3	8.3	8.0	8.0	8.0	8.3	8.3	8.3	8.3	8.0	8.3	8.2
Thermoplastic-Preformed, White												
92-63	9.2	7.9	6.7	7.3	7.2	6.9	6.9	7.0	7.0	7.0	7.0	7.0
93-37	9.4	8.3	7.2	7.0	7.5	6.7	6.9	7.2	6.9	7.0	7.0	7.1
93-38	9.9	8.4	7.8	7.5	7.5	6.5	7.0	7.2	7.0	7.3	7.0	6.9
93-54	9.5	7.9	6.9	7.5	7.2	7.0	6.9	7.0	7.0	7.0	7.0	7.0
93-55	9.3	7.9	6.9	7.5	7.2	7.2	7.0	7.2	7.2	7.2	7.2	7.2
Thermoplastic-Preformed, Yellow												
93-30	9.5	8.0	7.2	7.4	7.3	7.2	7.4	7.4	7.5	7.5	7.5	7.6
93-31	9.3	8.2	7.2	7.3	7.3	7.2	7.3	7.7	7.9	7.7	7.5	7.4
Permanent Tape, White												
92-1	9.9	8.7	7.7	7.2	7.5	7.3	7.2	7.5	7.3	7.3	7.5	6.9
92-3	10.0	9.2	8.4	7.7	7.8	7.5	7.7	7.4	7.8	7.2	7.4	6.8
92-86	10.0	9.3	8.3	8.2	8.5	7.3	7.5	7.3	7.7	7.3	7.3	6.3
93-23	10.0	9.7	8.9	8.7	8.9	8.3	7.6	8.3	8.3	8.3	8.2	8.2
93-25	10.0	9.7	9.5	8.9	8.9	8.7	8.7	8.3	8.3	7.7	8.3	7.5

TABLE 14. Appearance Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Asphalt Pavement (Kentucky) (continued)

SAMPLE NUMBER	SUBJECTIVE RATINGS											
	JUN 1993	JUL 1993	AUG 1993	SEPT 1993	OCT 1993	NOV 1993	DEC 1993	JAN 1994	FEB 1994	MAR 1994	APR 1994	MAY 1994
Permanent Tape, White (cont.)												
93-26	10.0	9.5	9.2	8.7	8.7	8.7	8.5	7.9	8.7	8.5	8.3	8.5
93-49	10.0	9.5	9.5	9.2	9.0	8.9	8.9	8.9	8.5	8.7	8.7	8.7
93-106	10.0	9.2	7.8	7.7	7.5	7.2	7.2	7.4	7.2	7.2	7.2	7.2
93-108	10.0	10.0	9.7	9.2	9.0	9.0	8.9	8.9	9.0	8.7	8.7	8.7
Permanent Tape, Yellow												
92-2	10.0	8.5	8.5	7.9	7.7	7.2	7.2	7.2	7.3	7.3	7.2	6.8
92-85	10.0	9.3	7.9	8.3	8.2	7.2	7.2	7.3	7.3	7.3	7.3	7.3
93-17	10.0	9.3	8.2	8.2	8.2	8.0	8.0	8.2	8.1	8.2	8.4	8.8
93-24	10.0	9.7	8.9	8.7	8.9	8.3	8.3	8.3	8.3	7.3	8.2	8.2
93-27	10.0	9.7	9.0	8.9	8.7	8.0	8.3	8.4	8.3	8.3	8.2	8.5
93-48	10.0	9.0	8.7	8.3	8.3	8.3	8.2	8.2	8.0	8.4	8.2	7.9
93-107	10.0	9.5	8.7	8.7	8.3	8.2	8.2	8.2	8.2	8.5	7.9	8.2
93-109	10.0	9.9	9.7	9.3	9.0	8.7	9.0	8.9	8.9	8.7	8.7	8.9
Temporary Tape, White												
92-92	10.0	8.9	8.2	7.3	7.3	7.2	7.3	7.7	7.7	7.5	7.7	7.3
93-56	9.2	7.4	6.7	7.2	7.2	7.2	7.2	7.4	7.4	7.4	7.2	7.2
Temporary Tape, Yellow												
92-90	10.0	8.7	7.5	7.0	7.0	6.7	6.5	6.2	6.9	6.5	6.7	6.7
93-57	9.7	8.5	8.0	7.5	7.8	7.3	7.2	6.9	7.2	7.3	7.2	7.0
93-64	10.0	8.5	7.7	7.0	7.0	6.9	6.7	6.7	7.2	7.0	6.7	6.7

TABLE 15. Appearance Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Portland Cement Concrete Pavement(Kentucky)

SAMPLE NUMBER	SUBJECTIVE RATINGS											
	JUN 1993	JUL 1993	AUG 1993	SEPT 1993	OCT 1993	NOV 1993	DEC 1993	JAN 1994	FEB 1994	MAR 1994	APR 1994	MAY 1994
Paint-Solvent, White (60 sec)												
92-17	10.0	8.4	7.9	7.6	7.6	7.5	7.5	7.8	7.5	7.5	7.3	7.0
92-39	10.0	9.0	7.9	7.4	7.7	7.7	7.9	8.2	7.9	7.9	7.7	7.7
92-48	10.0	8.2	7.0	7.0	7.2	6.7	6.7	6.5	6.5	6.3	6.0	5.8
92-50	10.0	8.5	7.7	7.3	7.0	6.9	7.0	7.0	6.7	6.9	6.0	6.1
93-3	10.0	8.7	8.0	7.7	7.5	7.3	7.3	7.9	7.5	7.3	7.0	6.9
93-9	9.3	9.0	7.8	7.0	6.9	6.3	6.5	6.0	5.9	5.9	5.3	5.7
93-12	10.0	8.9	7.8	7.0	7.3	6.9	6.5	7.1	7.0	6.7	6.3	6.1
93-75	10.0	8.4	7.7	7.7	7.3	7.3	7.0	7.0	7.0	6.7	6.5	6.5
93-77	10.0	8.0	7.5	7.0	7.0	7.0	7.2	7.2	7.2	7.0	6.3	6.5
93-79	10.0	8.7	7.8	7.8	8.0	7.7	7.7	6.9	6.5	6.7	6.0	6.2
93-95	9.9	7.4	7.2	6.3	6.5	6.9	6.9	7.0	7.2	7.2	7.0	6.6
93-99	9.9	8.2	7.0	7.2	7.0	7.0	6.7	7.2	7.0	7.0	6.7	6.5
93-101	9.9	8.6	7.5	7.2	7.2	7.0	7.0	7.0	7.0	7.0	6.7	6.2
93-113	9.9	8.0	7.2	6.9	7.0	6.9	6.7	6.5	6.4	6.7	6.2	6.2
Paint-Solvent, Yellow (60 sec)												
92-18	10.0	8.7	8.2	7.6	7.5	7.2	7.2	7.2	7.0	7.2	6.9	6.5
92-19	9.9	8.9	8.3	7.7	7.7	7.4	7.7	7.3	12.8	7.0	6.3	6.3
92-20	9.5	8.6	7.4	7.5	7.3	7.2	7.3	7.0	6.7	6.7	6.3	6.3
92-23	8.5	8.0	7.0	7.0	6.9	6.7	6.1	6.7	6.5	6.7	6.2	6.2
92-40	10.0	9.0	8.7	8.2	8.2	8.0	8.0	8.5	8.0	7.5	7.0	7.0
92-47	9.9	8.9	7.9	7.2	6.9	7.0	7.2	7.0	7.0	6.7	6.5	6.9
92-49	10.0	8.5	7.9	6.5	6.7	6.7	6.7	6.7	6.7	6.7	6.3	6.2
92-51	10.0	8.5	7.7	7.0	7.0	6.9	6.9	6.7	6.9	6.7	6.2	6.6
92-53	9.7	8.3	7.5	7.0	6.7	6.5	6.7	7.2	6.7	6.5	6.2	6.5
92-81	9.9	8.5	7.7	7.7	7.7	7.7	7.9	7.7	7.9	7.5	7.2	7.5

TABLE 15. Appearance Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Portland Cement Concrete Pavement(Kentucky) (continued)

SAMPLE NUMBER	SUBJECTIVE RATINGS											
	JUN 1993	JUL 1993	AUG 1993	SEPT 1993	OCT 1993	NOV 1993	DEC 1993	JAN 1994	FEB 1994	MAR 1994	APR 1994	MAY 1994
Paint-Solvent, Yellow (60 sec) (cont.)												
93-4	10.0	9.2	8.7	8.4	8.5	8.2	8.4	8.7	8.7	7.8	7.3	7.1
93-10	8.3	7.0	6.0	6.2	6.2	6.0	5.9	6.2	6.2	5.9	5.5	5.2
93-11	10.0	8.7	8.0	7.7	7.7	7.7	7.5	7.4	7.2	7.0	6.7	6.5
93-13	9.4	7.8	7.2	7.5	7.2	7.0	7.0	6.9	6.5	6.3	6.2	6.1
93-76	9.9	9.3	8.7	8.7	8.5	8.7	8.2	8.9	8.0	8.4	8.2	7.5
93-78	10.0	9.0	8.7	8.5	8.5	8.3	8.2	8.3	8.2	8.0	8.2	7.6
93-80	10.0	9.0	8.7	8.5	8.5	8.3	8.2	8.5	8.0	7.9	8.0	7.6
93-93	9.7	8.7	7.9	8.0	8.0	8.0	8.0	7.5	8.2	7.7	7.3	7.6
93-94	9.9	9.0	8.7	8.5	8.5	8.7	8.7	8.9	8.7	8.7	8.3	8.7
93-98	10.0	8.0	6.7	6.3	6.5	6.4	6.7	6.7	6.7	6.7	5.9	6.2
93-100	10.0	8.0	6.7	6.3	6.5	6.4	6.7	6.9	6.7	6.5	5.9	6.0
93-112	9.9	8.7	8.3	7.5	7.5	7.7	7.5	7.7	6.5	6.5	6.4	6.0
Paint-Water, White (60 sec)												
92-24	10.0	8.5	7.9	7.2	7.0	7.2	7.0	7.3	7.0	7.2	7.0	6.7
92-30	10.0	9.0	8.5	7.7	7.7	7.5	7.3	8.0	7.7	7.4	7.4	7.0
92-33	10.0	9.2	8.3	8.0	8.3	8.0	8.0	8.7	8.5	7.4	8.0	7.9
92-41	10.0	8.9	7.7	6.9	7.0	7.2	7.2	7.4	7.5	6.9	7.2	6.9
92-46	10.0	8.4	7.2	7.3	7.0	6.7	6.9	6.5	6.2	6.0	5.9	5.6
92-54	10.0	8.9	8.3	7.5	7.2	7.2	7.0	7.7	7.0	7.0	7.0	6.8
92-56	10.0	9.0	8.2	7.0	7.0	7.0	7.0	12.0	7.0	6.9	6.7	6.8
92-58	10.0	9.3	8.2	7.7	8.0	7.7	7.5	7.9	7.7	7.2	7.3	7.2
92-64	10.0	8.5	7.9	6.5	6.9	6.7	7.0	6.9	6.5	6.5	6.2	6.0
92-80	9.9	7.0	6.2	6.0	6.3	6.0	6.4	7.0	6.7	6.4	6.3	6.0
93-1	10.0	8.7	8.0	7.2	7.5	7.0	7.2	7.5	7.7	7.7	7.5	7.0
93-14	10.0	6.7	6.0	5.7	5.7	5.7	6.0	6.4	6.4	6.7	6.5	6.1

TABLE 15. Appearance Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Portland Cement Concrete Pavement (Kentucky) (continued)

SAMPLE NUMBER	SUBJECTIVE RATINGS											
	JUN 1993	JUL 1993	AUG 1993	SEPT 1993	OCT 1993	NOV 1993	DEC 1993	JAN 1994	FEB 1994	MAR 1994	APR 1994	MAY 1994
Paint-Water, White (60 sec) (cont.)												
93-81	10.0	8.9	8.2	8.2	8.2	7.5	7.9	8.0	7.8	7.9	7.9	7.3
93-84	9.4	7.0	6.0	5.9	5.9	6.0	6.2	6.7	6.7	6.7	6.5	6.3
93-87	10.0	8.9	8.3	7.9	7.7	7.7	7.7	7.5	7.7	7.7	7.7	7.1
93-92	10.0	7.0	6.2	6.0	6.0	6.0	6.4	7.0	6.7	6.5	6.3	6.0
93-97	10.0	8.7	7.3	6.9	6.9	6.9	6.9	6.9	7.0	6.9	6.7	6.6
93-103	10.0	8.7	7.3	6.9	6.9	6.9	6.9	7.0	6.9	6.7	6.5	6.6
Paint-Water, Yellow (60 sec)												
92-25	10.0	8.4	7.7	7.2	7.3	7.1	7.3	7.2	7.3	7.2	7.0	6.2
92-26	10.0	8.5	7.7	7.5	7.2	7.0	7.2	7.2	7.2	7.0	6.9	6.9
92-27	10.0	8.7	7.9	7.3	7.5	7.4	7.5	7.3	7.0	7.2	6.7	6.7
92-28	9.9	8.5	7.7	7.2	7.5	7.0	7.2	7.0	6.9	7.0	7.0	7.0
92-29	9.9	8.3	7.8	7.7	7.7	7.3	7.3	7.0	7.0	7.0	6.3	6.5
92-31	9.9	8.6	7.9	7.9	8.0	7.8	7.8	7.7	7.6	7.4	7.4	7.4
92-34	10.0	9.2	8.7	8.3	8.2	8.4	8.2	8.2	8.7	8.5	8.2	8.2
92-42	10.0	9.5	8.9	8.9	9.0	8.9	8.9	9.0	8.5	8.4	8.2	8.0
92-43	9.7	9.0	8.5	8.3	8.5	8.0	8.0	7.7	7.5	7.2	7.3	7.1
92-55	10.0	8.9	8.2	7.5	7.8	7.5	7.5	7.5	7.3	7.0	7.2	7.0
92-57	10.0	8.4	7.5	6.7	6.7	6.5	6.7	6.5	6.7	6.2	6.2	6.2
92-59	10.0	8.9	8.3	7.5	7.5	7.5	7.7	7.5	8.3	6.7	6.8	6.8
92-60	9.9	8.7	7.9	7.4	7.4	7.2	7.5	7.3	7.4	7.0	6.9	6.5
92-61	10.0	8.7	7.9	7.2	7.2	7.0	7.3	7.2	7.2	6.9	6.9	6.4
92-62	10.0	8.7	8.2	7.9	7.9	7.9	7.7	7.7	7.5	7.2	6.9	6.6
92-65	10.0	8.7	8.2	7.5	7.0	7.0	7.5	7.0	7.0	6.7	6.7	6.3
92-79	10.0	8.5	8.0	7.4	6.8	7.3	7.4	7.5	7.5	7.3	7.2	7.3
92-82	9.9	8.5	7.6	7.4	7.4	7.5	7.5	7.3	7.5	7.3	6.9	6.9

TABLE 15. Appearance Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Portland Cement Concrete Pavement(Kentucky) (continued)

SAMPLE NUMBER	SUBJECTIVE RATINGS											
	JUN 1993	JUL 1993	AUG 1993	SEPT 1993	OCT 1993	NOV 1993	DEC 1993	JAN 1994	FEB 1994	MAR 1994	APR 1994	MAY 1994
Paint-Water, Yellow (60 sec) (cont.)												
92-83	9.9	8.3	7.5	7.2	7.0	7.2	7.2	7.2	7.3	7.0	6.9	7.0
92-84	10.0	8.3	7.5	7.0	7.0	7.2	7.0	7.0	7.3	6.9	6.7	7.0
93-2	10.0	8.3	7.7	7.0	7.2	6.5	6.9	6.9	6.9	6.7	6.5	6.8
93-8	9.9	9.0	8.5	8.2	8.2	7.9	7.8	7.8	7.7	7.3	7.3	6.6
93-15	9.7	8.5	7.7	7.4	7.4	7.5	7.3	7.2	7.2	7.0	6.9	6.9
93-82	9.7	8.5	7.7	7.7	8.0	7.3	7.7	7.7	7.7	7.7	7.3	7.5
93-83	9.7	8.9	8.2	8.2	7.9	7.9	8.0	8.2	8.0	8.0	7.5	7.7
93-85	9.5	8.3	7.7	7.2	7.2	7.2	7.3	7.4	7.2	7.2	7.0	7.4
93-86	9.9	9.0	8.2	8.2	8.2	8.3	8.5	8.3	8.3	8.2	7.9	8.2
93-88	9.5	8.7	8.0	8.2	8.2	8.2	8.4	8.2	8.2	7.7	7.2	7.2
93-89	10.0	8.9	8.2	8.3	8.2	8.2	8.2	8.4	8.0	8.0	7.7	8.1
93-90	10.0	8.5	7.9	7.2	7.2	7.5	7.5	7.5	7.5	7.2	7.2	7.2
93-91	10.0	8.9	8.2	7.7	7.3	7.7	7.7	8.2	7.9	7.9	7.5	7.7
93-96	10.0	8.7	8.2	7.3	7.5	7.3	7.4	7.5	7.3	7.0	7.0	6.6
93-102	9.9	8.5	7.7	7.0	7.0	6.9	7.2	7.0	7.0	6.9	6.9	6.4
93-104	10.0	8.7	8.2	7.9	7.7	7.9	7.9	8.0	7.7	7.5	7.2	6.9
93-105	10.0	8.7	8.2	7.9	7.7	7.9	7.9	7.9	7.7	7.4	7.0	6.8
Paint-Polyester, White												
92-6	9.5	8.4	6.9	6.0	6.5	6.7	6.7	7.3	6.9	6.9	6.9	6.5
92-8	10.0	8.2	6.8	6.7	6.5	7.0	6.9	7.5	7.0	6.8	6.9	6.5
92-10	9.7	8.4	6.9	6.7	6.7	6.7	7.0	7.3	7.0	7.0	7.0	6.7
92-36	8.9	9.2	8.5	8.5	8.5	8.5	8.2	7.7	8.0	7.9	7.9	7.7
93-5	9.5	9.6	9.1	8.7	8.7	8.9	8.4	8.9	8.6	8.2	8.6	8.6
93-70	9.7	8.3	8.0	7.0	7.3	7.7	7.0	7.3	7.3	7.2	7.0	6.9
93-73	9.6	8.0	6.9	6.4	6.7	6.6	6.7	6.9	6.9	6.7	6.7	6.8

TABLE 15. Appearance Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Portland Cement Concrete Pavement (Kentucky) (continued)

SAMPLE NUMBER	SUBJECTIVE RATINGS											
	JUN 1993	JUL 1993	AUG 1993	SEPT 1993	OCT 1993	NOV 1993	DEC 1993	JAN 1994	FEB 1994	MAR 1994	APR 1994	MAY 1994
Paint-Polyester, Yellow												
92-7	9.9	9.0	8.3	7.7	7.4	7.5	7.6	8.0	7.7	7.4	7.2	7.3
92-9	10.0	9.2	8.6	8.2	8.0	8.5	8.5	8.7	8.5	8.5	8.0	8.0
92-11	9.7	9.2	8.5	8.3	8.1	8.5	8.3	8.9	8.4	8.4	8.0	8.3
92-37	9.9	9.0	8.5	9.0	9.2	8.5	8.3	8.3	8.5	7.2	7.2	7.6
92-38	8.7	7.5	6.7	7.0	7.4	6.3	6.5	6.2	6.2	6.2	6.0	6.4
93-6	8.7	7.7	6.9	6.2	6.2	5.9	6.2	6.4	6.2	6.4	6.2	6.2
93-7	9.9	8.7	8.3	7.5	7.5	7.3	7.0	7.2	7.0	7.0	7.2	7.2
93-71	9.3	8.3	7.5	6.7	7.0	6.9	6.9	7.0	7.0	6.7	6.5	6.7
93-72	9.0	8.3	7.2	6.2	6.9	6.7	7.0	7.0	7.0	6.5	6.7	7.0
93-74	9.4	8.9	7.7	7.2	7.0	7.0	7.2	7.0	7.3	7.0	6.9	7.0
Paint-Methyl Methacrylate Polymer, White												
92-66	10.0	7.8	6.7	6.3	6.0	6.5	6.5	7.0	7.0	7.0	7.0	6.8
92-68	10.0	7.6	6.6	6.7	6.4	6.8	6.8	7.5	7.2	7.0	7.2	7.1
92-71	10.0	7.7	6.5	6.3	6.0	6.5	6.3	6.7	6.9	6.9	6.7	6.5
Paint-Methyl Methacrylate Polymer, Yellow												
92-44	8.7	7.3	6.3	6.7	6.5	6.0	6.7	6.3	6.7	6.3	6.0	6.3
92-67	9.9	8.0	6.0	6.5	6.2	6.4	6.5	7.2	7.2	7.0	6.8	7.0
92-69	9.9	8.0	5.9	6.2	6.0	6.0	6.3	7.0	7.0	6.7	6.7	7.0
92-70	9.6	7.9	5.9	6.0	5.9	5.9	6.2	6.8	6.7	6.5	6.4	6.7
Paint-Multipolymer, White												
92-97	8.7	4.9	4.0	3.5	2.7	2.9	2.9	3.7	3.0	3.2	3.2	3.0
Paint-Multipolymer, White												
92-99	9.4	6.0	4.9	5.0	4.9	4.0	3.7	5.3	4.5	4.9	4.7	4.4

TABLE 15. Appearance Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Portland Cement Concrete Pavement (Kentucky) (continued)

SAMPLE NUMBER	SUBJECTIVE RATINGS											
	JUN 1993	JUL 1993	AUG 1993	SEPT 1993	OCT 1993	NOV 1993	DEC 1993	JAN 1994	FEB 1994	MAR 1994	APR 1994	MAY 1994
Thermoplastic-Alkyd, White												
92-22	9.7	8.3	6.9	6.7	6.9	7.2	7.2	7.4	7.2	7.0	7.4	7.5
92-72	10.0	8.4	8.3	8.2	8.0	7.9	8.5	8.7	8.2	8.3	8.2	8.2
93-35	9.7	8.5	7.9	7.8	7.6	7.9	7.6	7.7	7.8	7.6	7.7	7.7
93-41	9.7	8.6	7.5	7.2	7.3	7.4	7.5	8.2	7.5	7.7	7.5	7.6
93-43	9.7	8.9	7.7	7.5	7.5	7.4	7.5	7.5	7.5	7.2	7.3	7.0
93-47	10.0	8.7	7.7	7.5	7.5	7.9	8.4	7.9	7.9	7.7	7.9	7.5
93-58	10.0	8.9	8.3	8.2	8.2	8.3	8.3	8.7	8.2	8.2	8.2	8.3
93-69	8.2	6.9	6.0	6.3	6.0	6.2	6.3	6.9	6.5	6.5	6.7	6.3
Thermoplastic-Alkyd, Yellow												
92-21	9.5	8.5	7.7	7.7	7.8	8.0	8.5	8.2	8.0	8.0	7.9	7.5
92-73	10.0	9.3	8.5	8.7	8.7	8.7	8.7	8.9	7.8	8.0	8.3	8.3
93-36	9.6	8.0	7.3	7.0	7.0	7.1	7.1	7.4	7.1	7.4	7.1	7.2
93-39	9.2	7.7	7.0	7.2	7.0	6.9	7.0	7.0	7.0	6.9	6.9	6.9
93-40	9.9	8.5	8.0	8.0	7.8	8.0	8.0	8.0	8.3	8.0	8.0	8.1
93-42	10.0	8.5	7.9	8.0	7.7	7.9	8.0	8.2	8.0	7.9	8.0	7.9
93-46	10.0	8.9	7.9	7.9	7.9	8.3	8.7	8.2	8.2	7.9	8.0	8.0
93-59	10.0	9.3	8.5	8.7	8.7	8.7	8.7	8.7	8.4	8.0	8.3	8.3
93-68	9.7	8.5	7.5	7.7	7.8	7.7	8.2	8.4	7.9	7.8	7.5	8.0
Thermoplastic-Hydrocarbon, White												
92-14	9.0	6.3	6.2	5.8	6.2	6.5	6.7	7.4	7.0	6.9	7.0	6.5
92-75	9.9	8.6	7.9	7.9	7.7	7.7	7.9	8.3	7.7	7.7	7.5	7.9
93-32	9.5	8.0	7.2	7.0	7.4	7.5	7.3	7.5	7.3	7.3	7.3	7.0
93-44	10.0	8.7	7.5	7.2	7.3	7.7	8.2	7.8	7.7	7.7	7.7	7.6
93-66	8.2	6.9	6.0	6.3	6.0	6.2	6.3	6.7	6.3	6.5	6.7	6.3

TABLE 15. Appearance Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Portland Cement Concrete Pavement (Kentucky) (continued)

SAMPLE NUMBER	SUBJECTIVE RATINGS											
	JUN 1993	JUL 1993	AUG 1993	SEPT 1993	OCT 1993	NOV 1993	DEC 1993	JAN 1994	FEB 1994	MAR 1994	APR 1994	MAY 1994
Thermoplastic-Hydrocarbon, Yellow												
92-74	9.9	8.5	8.2	8.3	8.3	8.5	9.0	8.5	8.2	8.0	8.2	8.2
92-98	9.2	7.7	6.7	7.0	7.5	7.4	7.7	7.7	8.0	7.4	7.7	7.8
93-28	9.3	7.5	6.9	6.9	7.0	7.0	7.0	6.7	7.0	6.9	6.9	6.9
93-29	9.7	8.7	7.9	8.0	7.7	7.9	8.0	8.0	8.2	7.9	8.2	8.1
93-33	9.9	8.9	8.3	8.5	7.8	8.5	8.5	8.4	8.0	7.4	8.2	8.1
93-34	9.2	7.9	7.2	7.0	7.7	7.3	7.2	6.9	7.0	6.9	7.0	6.8
93-45	9.5	8.3	7.5	7.7	7.5	7.9	8.2	7.4	7.5	7.5	7.5	7.5
93-60	9.9	8.7	8.2	8.2	8.3	8.7	8.7	8.0	8.2	8.0	8.0	8.1
93-67	9.3	8.2	7.3	7.4	7.7	7.5	7.8	7.3	7.2	7.3	7.3	7.4
Thermoplastic-Preformed, White												
92-63	8.9	7.4	6.9	6.9	6.3	6.7	6.5	7.0	7.0	7.0	7.0	6.7
93-37	9.7	7.2	6.4	6.3	5.9	5.7	5.9	6.5	6.2	6.7	6.5	6.3
93-38	9.7	7.1	6.4	6.7	6.2	6.0	6.2	6.9	6.3	6.6	6.9	6.3
93-54	9.5	7.9	7.0	6.7	6.7	7.0	6.7	7.0	6.7	7.0	7.0	6.7
93-55	9.3	7.2	6.7	6.7	6.7	7.0	6.7	7.0	6.7	7.0	7.0	6.7
Thermoplastic-Preformed, Yellow												
93-30	9.9	8.0	7.4	7.0	6.9	7.0	6.7	7.2	6.7	6.8	7.0	7.3
93-31	9.5	8.3	7.5	7.2	6.9	7.2	6.9	7.2	6.7	7.2	7.2	7.3
Permanent Tape, White												
92-1	9.0	7.0	6.2	7.0	6.9	6.4	6.9	7.0	6.7	6.9	6.7	6.3
92-3	9.3	8.5	7.7	8.0	7.9	7.3	7.7	7.7	7.5	7.2	7.0	6.7
92-86	9.5	9.2	8.0	7.5	7.5	7.5	7.5	7.9	7.9	7.0	6.9	6.7
93-23	10.0	9.3	8.7	8.9	8.7	8.7	8.3	8.7	8.4	8.2	7.3	7.3
93-25	10.0	9.3	8.7	8.5	8.5	8.2	8.2	8.9	7.9	7.7	7.9	8.0
93-26	10.0	9.3	9.0	8.7	8.9	9.0	8.3	9.0	8.5	7.9	8.0	8.0

TABLE 15. Appearance Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Portland Cement Concrete Pavement (Kentucky) (cont.)

SAMPLE NUMBER	SUBJECTIVE RATINGS											
	JUN 1993	JUL 1993	AUG 1993	SEPT 1993	OCT 1993	NOV 1993	DEC 1993	JAN 1994	FEB 1994	MAR 1994	APR 1994	MAY 1994
Permanent Tape, White (cont.)												
93-49	10.0	9.0	9.0	9.2	9.0	8.7	8.7	8.7	8.7	5.6	7.7	8.3
93-106	10.0	8.3	7.5	8.0	8.0	7.9	7.9	7.9	7.9	7.9	7.5	7.4
93-108	10.0	9.5	9.3	9.0	9.3	9.0	8.9	9.0	8.9	8.7	8.7	8.0
Permanent Tape, Yellow												
92-2	9.2	6.5	6.2	6.2	5.9	5.9	6.2	6.2	6.4	6.0	5.9	5.9
92-85	9.7	7.2	6.0	6.3	6.0	6.0	6.2	6.7	6.9	6.3	6.8	6.6
93-17	10.0	9.2	8.9	8.7	7.3	8.2	7.3	7.7	8.0	7.4	7.7	7.0
93-24	10.0	9.3	8.7	8.9	8.7	8.6	8.3	8.7	7.6	8.0	7.3	7.3
93-27	10.0	9.0	8.7	8.3	8.2	8.4	8.0	8.0	8.2	8.0	8.0	8.0
93-48	9.4	7.9	7.7	7.9	7.9	7.9	7.5	8.0	7.9	7.3	7.5	7.2
93-107	10.0	8.7	8.3	8.3	8.5	8.2	8.2	7.9	8.2	8.0	7.9	8.0
93-109	10.0	9.5	9.3	9.3	9.3	9.1	9.0	8.9	8.9	8.5	8.7	8.7
Temporary Tape, White												
92-92	9.4	7.0	6.8	6.7	6.3	6.4	6.5	7.2	6.9	6.9	6.5	6.5
93-56	8.7	6.4	6.0	6.9	6.5	6.4	6.7	7.5	6.9	6.9	6.7	6.9
Temporary Tape, Yellow												
92-90	10.0	8.0	7.5	7.7	7.5	7.0	7.4	7.0	7.7	7.0	6.9	6.7
93-57	9.0	7.0	6.7	7.0	7.0	6.5	6.9	6.9	7.3	7.0	7.0	6.5
93-64	9.7	7.0	7.0	7.0	7.0	6.7	6.9	6.9	7.3	6.9	7.0	6.7

TABLE 16. Appearance Ratings for Removable Tape Lines on Asphalt Pavement (Kentucky)

SAMPLE NUMBER		JUL 1993	AUG 1993	SEP 1993	OCT 1993	NOV 1993	DEC 1993	AVG.
Removable Tape, Yellow								
2-04	T	9.3	7.9	7.7	7.7	7.0	7.0	7.8
	L	9.5	7.9	8.7	7.7	7.0	7.0	8.0
2-87	T	9.7	9.1	8.8	8.7	7.7	8.0	8.7
	L	9.7	9.1	8.8	8.7	7.3	8.0	8.6
2-91	T	9.5	8.9	8.2	8.3	8.0	7.7	8.4
	L	9.5	8.9	8.2	8.3	8.0	7.7	8.4
3-18	T	9.3	8.4	8.3	7.7	7.3	7.3	8.1
	L	9.5	8.5	8.4	7.7	7.3	7.3	8.1
3-19	T	8.9	8.3	8.2	8.0	8.0	7.5	8.2
	L	8.8	8.4	8.3	8.0	8.5	8.0	8.3
3-21	T	9.2	8.2	8.8	8.3	8.5	8.0	8.5
	L	9.2	8.2	8.8	8.3	8.5	8.0	8.5
3-22	T	7.5	7.0	7.1	6.7	7.0	8.3	7.3
	L	7.7	7.2	7.1	7.0	7.3	8.3	7.4
3-51	T	8.7	8.3	8.1	8.7	7.3	7.3	8.1
	L	8.7	8.3	8.1	8.7	7.3	7.0	8.0
3-53	T	9.5	8.7	8.7	8.0	8.3	8.3	8.6
	L	9.5	8.7	8.7	8.0	8.3	8.0	8.5
3-62	T	9.3	8.1	8.0	8.0	7.7	7.3	8.1
	L	9.3	8.5	8.7	8.7	7.7	7.7	8.4
3-110	T	9.5	8.6	8.7	9.3	8.0	8.7	8.8
	L	9.5	8.6	8.7	9.3	8.0	8.7	8.8
Removable Tape, White								
2-05	T	8.8	8.0	8.1	7.3	7.0	7.0	7.7
	L	9.2	8.2	8.5	7.3	7.0	7.0	7.9
2-88	T	9.5	8.9	8.7	8.7	7.7	8.0	8.6
	L	9.4	8.7	8.7	8.7	8.0	7.0	8.4

TABLE 16. Appearance Ratings for Removable Tape Lines on Asphalt Pavement (Kentucky) (continued)

SAMPLE NUMBER		JUL 1993	AUG 1993	SEP 1993	OCT 1993	NOV 1993	DEC 1993	AVG.
2-89	T	9.2	8.0	7.9	7.3	7.3	6.3	7.7
	L	9.2	8.4	8.1	7.3	7.3	6.3	7.8
3-16	T	9.3	8.2	8.3	7.7	8.0	7.7	8.2
	L	9.3	8.4	8.3	7.7	8.0	7.7	8.2
3-20	T	9.0	9.2	9.0	7.7	7.5	7.3	7.1
	L	9.0	8.3	8.2	7.7	8.0	7.7	8.2
3-50	T	9.0	8.1	7.9	8.0	7.3	8.0	8.1
	L	9.0	8.1	7.7	8.0	7.3	8.0	8.0
3-52	T	9.0	7.3	7.6	7.7	7.3	7.0	7.7
	L	9.0	8.0	8.1	7.7	7.3	7.3	7.9
3-63	T	8.7	7.9	7.9	8.0	7.3	7.3	7.9
	L	9.0	8.1	8.4	8.0	7.3	7.3	8.0

Removable Tape, Black

3-111	T	9.0	8.0	7.9	7.0	8.0	7.0	7.8
	L	9.3	8.0	7.9	7.0	8.0	7.0	7.9

T Transverse Stripe
L Longitudinal Stripe

* Tape Missing

TABLE 17. Appearance Ratings for Removable Tape Lines on Portland Cement Concrete Pavement (Kentucky)

SAMPLE NUMBER		JUL 1993	AUG 1993	SEP 1993	OCT 1993	NOV 1993	DEC 1993	AVG.
Removable Tape, Yellow								
2-04	T	8.7	8.0	7.3	6.7	7.6	6.7	7.5
	L	8.7	8.0	7.6	6.7	8.3	8.3	7.9
2-87	T	8.3	8.2	8.8	8.3	8.7	8.7	8.5
	L	8.3	8.2	8.8	8.0	8.7	8.7	8.5
2-91	T	9.5	7.1	8.1	9.3	8.3	9.0	8.6
	L	9.5	7.1	8.2	9.3	8.7	9.0	8.6
3-18	T	8.3	7.0	8.0	8.3	7.3	8.0	7.8
	L	8.3	7.0	8.0	8.3	7.3	8.0	7.8
3-19	T	8.2	7.5	7.3	8.0	7.3	8.0	7.7
	L	8.5	7.5	7.3	7.7	7.3	8.0	7.7
3-21	T	8.3	8.1	7.7	8.3	8.0	8.7	8.2
	L	8.3	8.1	7.7	8.3	8.3	8.7	8.2
3-22	T	7.0	6.3	6.0	6.0	6.0	7.7	6.5
	L	7.3	6.7	6.3	6.3	6.6	7.7	6.8
3-51	T	8.5	7.3	8.3	8.3	7.7	7.3	7.9
	L	8.5	7.5	8.3	7.3	7.7	7.0	7.7
3-53	T	8.7	8.0	8.0	7.7	8.0	7.7	8.0
	L	8.7	8.0	8.0	7.7	8.0	7.7	8.0
3-62	T	8.5	7.7	7.8	7.7	7.7	8.3	8.0
	L	7.2	8.0	7.8	7.8	7.7	8.3	7.8
3-110	T	9.5	8.7	8.6	8.0	7.7	8.7	8.5
	L	9.5	8.7	8.6	8.0	7.7	8.7	8.5
Removable Tape, White								
2-05	T	6.8	6.4	6.3	6.1	7.7	6.0	6.6
	L	7.3	7.0	6.9	6.4	8.0	6.7	7.1
2-88	T	8.3	8.7	8.0	7.3	7.7	8.7	8.1
	L	8.3	8.7	8.0	7.3	7.7	8.7	8.1
2-89	T	8.2	7.7	7.3	6.7	8.0	8.0	7.7
	L	8.2	7.7	7.3	7.3	8.7	8.7	8.0

TABLE 17. Appearance Ratings for Removable Tape Lines on Portland Cement Concrete Pavement (Kentucky) (continued)

SAMPLE NUMBER		JUL 1993	AUG 1993	SEP 1993	OCT 1993	NOV 1993	DEC 1993	AVG.
3-16	T	9.5	7.7	7.3	7.3	7.3	8.3	7.9
	L	9.5	7.9	7.3	7.3	7.3	8.3	7.9
3-20	T	8.3	7.5	8.2	8.0	7.3	8.3	7.9
	L	8.5	7.5	8.2	7.3	7.3	8.7	7.9
3-50	T	8.7	8.2	8.5	8.0	8.7	8.7	8.5
	L	8.7	8.2	8.4	8.0	8.7	8.7	8.5
3-52	T	8.3	6.7	7.3	7.0	7.0	6.7	7.2
	L	8.3	7.3	7.3	7.0	7.0	7.3	7.4
3-63	T	6.5	6.0	6.2	7.7	6.7	8.0	6.9
	L	6.5	6.3	6.3	7.7	6.7	8.0	6.9
Removable Tape, Black								
3-111	T	9.3	8.0	7.5	7.0	9.0	9.0	8.3
	L	9.3	8.0	7.5	7.0	9.0	9.0	8.3

T Transverse Stripe
L Longitudinal Stripe

* Tape Missing

TABLE 18. Colormeter Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Asphalt Pavement (Kentucky)

SAMPLE NUMBER	COLORMETER MEASUREMENTS											
	JUN 1993	JUL 1993	AUG 1993	SEPT 1993	OCT 1993	NOV 1993	DEC 1993	JAN 1994	FEB 1994	MAR 1994	APR 1994	MAY 1994
Paint-Solvent, White (60 sec)												
92-17*	59.0	48.0	39.0	39.5	36.0	34.8	42.3	47.5	36.5	36.8	31.5	21.5
	56.8	44.8	43.5	38.1	44.3	40.3	38.3	54.5	44.8	55.5	43.5	37.3
92-39	77.0	51.3	55.3	47.6	37.5	37.5	40.3	57.0	52.5	45.8	40.0	30.3
	75.3	49.0	48.8	43.6	40.5	36.8	35.0	54.8	50.0	53.8	44.3	37.0
92-48	66.5	47.0	41.5	32.0	34.3	34.8	37.8	42.5	37.0	38.8	32.3	22.0
	67.8	51.0	47.0	42.1	43.3	39.5	39.3	45.0	40.3	41.3	37.0	32.5
92-50	68.8	45.3	38.5	33.9	33.5	31.0	34.8	40.5	31.3	27.5	26.0	14.5
	69.5	50.3	46.0	39.0	37.3	35.3	36.8	44.8	40.5	43.5	39.0	31.5
93-3	66.8	48.0	51.3	38.5	41.0	38.5	43.8	59.5	48.5	39.5	42.3	30.5
	65.3	49.8	48.0	36.6	42.3	39.3	33.5	56.3	50.0	58.5	47.3	37.5
93-9	65.0	45.0	48.0	34.9	30.8	31.5	35.3	32.8	30.3	29.5	24.0	18.3
	65.8	52.8	48.3	41.1	39.5	35.8	36.5	38.5	32.5	36.3	32.5	28.0
93-12	75.0	49.8	51.3	41.2	40.5	37.5	40.5	44.3	39.3	40.5	32.3	25.8
	75.3	55.3	50.8	41.5	42.8	40.5	40.5	48.0	42.0	40.0	40.3	32.3
93-75	73.0	47.3	45.3	28.5	37.3	38.0	44.0	52.5	43.5	45.5	40.5	25.8
	71.0	50.0	36.5	38.8	45.3	41.3	42.8	48.0	43.3	50.0	41.5	38.3
93-77	75.5	50.0	41.3	36.2	38.8	34.8	42.8	53.0	43.8	49.5	40.5	25.5
	74.0	55.3	46.8	47.7	47.0	37.8	40.8	48.3	43.8	55.5	41.0	38.5
93-79	75.8	58.0	50.0	42.7	40.8	43.0	42.0	49.0	40.5	42.5	34.3	22.8
	74.8	60.5	56.3	54.4	51.3	47.5	48.0	54.8	51.0	52.3	48.0	41.8
93-95	62.0	42.0	45.5	40.5	35.0	37.5	40.8	55.8	52.3	56.3	42.0	30.0
	58.3	42.3	38.0	32.5	39.0	36.0	37.8	54.0	46.5	54.5	44.0	35.3
93-99	60.8	40.8	44.5	33.0	33.3	36.0	35.0	41.5	37.8	28.0	26.8	19.8
	64.5	45.0	43.8	37.9	39.8	38.0	38.0	46.3	41.8	47.0	39.5	29.8
93-101	63.5	44.3	34.5	29.3	34.0	32.5	34.8	41.8	33.3	28.3	23.0	19.0
	63.5	47.5	42.5	35.7	38.3	35.3	33.8	45.5	42.3	48.3	38.8	33.3
93-113	68.8	42.8	38.5	31.4	36.5	33.0	41.0	44.3	36.8	34.8	24.5	16.8
	67.8	46.8	45.0	38.9	38.3	34.0	36.0	42.0	37.3	44.5	39.3	32.5
Paint-Solvent, Yellow (60 sec)												
92-18	78.5	48.8	51.0	39.8	40.3	35.8	42.8	44.3	41.0	43.0	31.3	25.5
	73.8	54.3	50.0	44.1	38.3	37.5	40.3	48.3	41.0	45.0	33.3	32.8
92-19	51.0	31.3	32.8	26.4	24.3	24.3	27.0	27.8	21.5	22.3	17.0	16.8
	46.3	31.0	34.5	27.5	26.5	24.5	26.3	29.0	25.5	26.8	23.3	19.0

TABLE 18. Colormeter Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Asphalt Pavement (Kentucky) (continued)

SAMPLE NUMBER	COLORMETER MEASUREMENTS											
	JUN 1993	JUL 1993	AUG 1993	SEPT 1993	OCT 1993	NOV 1993	DEC 1993	JAN 1994	FEB 1994	MAR 1994	APR 1994	MAY 1994
Paint-Solvent, Yellow (60 sec) (cont.)												
92-20	53.3	32.8	36.5	29.7	27.3	26.5	29.8	31.8	24.5	25.5	19.8	17.3
	51.3	35.0	33.5	30.3	29.5	27.5	28.3	33.3	31.3	33.8	27.5	24.0
92-23	42.5	32.5	35.3	29.8	26.8	25.5	28.3	35.8	33.5	26.0	26.3	19.5
	43.0	37.5	36.0	34.3	28.5	28.5	29.0	38.8	32.0	35.5	28.5	24.8
92-40	41.5	29.8	31.0	24.5	25.8	25.0	30.0	36.8	30.8	28.3	27.3	17.0
	41.5	32.0	33.0	27.4	28.8	25.8	26.0	37.8	31.8	37.5	30.5	23.5
92-47	35.8	21.8	25.3	19.9	17.8	18.3	21.0	25.8	22.0	24.0	18.5	14.0
	36.3	24.5	23.8	20.4	20.8	19.3	20.0	25.5	21.3	24.0	21.5	16.8
92-49	39.3	22.3	24.5	21.4	17.0	17.3	21.0	24.0	19.8	15.3	16.8	12.5
	38.3	22.5	24.0	19.5	17.8	16.5	17.8	21.3	19.8	24.8	19.0	15.3
92-51	39.3	21.5	21.5	18.7	18.0	17.3	19.8	23.5	19.5	15.5	16.5	12.0
	39.0	22.8	21.3	17.5	17.5	16.0	16.3	20.0	18.0	22.0	18.3	16.3
92-53	36.5	24.8	28.0	21.4	22.5	21.5	24.3	25.8	20.8	18.5	16.0	16.0
	37.0	26.5	27.0	20.5	21.8	19.0	19.3	23.0	20.8	23.5	21.8	17.8
92-81	33.3	22.0	24.0	25.4	22.3	23.0	25.0	34.8	35.0	40.3	28.8	24.3
	31.5	20.8	23.5	21.1	24.0	23.3	24.0	33.3	30.0	38.5	32.5	25.3
93-4	41.3	28.3	31.3	27.9	24.3	24.5	26.3	35.3	30.3	41.5	30.0	22.0
	40.8	28.3	28.8	26.3	25.3	24.0	25.3	35.8	30.5	35.3	29.8	23.5
93-10	46.8	37.0	39.5	29.7	29.8	30.8	32.5	36.3	32.0	35.3	26.8	24.8
	44.8	42.8	38.8	35.0	34.5	31.0	32.3	37.8	32.5	38.0	31.0	29.0
93-11	46.3	31.3	31.8	25.6	24.5	25.3	25.0	26.8	22.8	24.8	20.5	15.3
	44.3	32.0	29.8	27.8	26.3	25.3	24.5	25.0	21.8	22.5	21.8	19.3
93-13	47.8	33.0	34.8	28.1	28.8	23.5	29.0	32.3	28.0	24.3	22.5	19.0
	46.3	33.5	34.3	30.8	30.5	26.8	28.0	33.0	29.3	31.3	27.5	21.0
93-76	41.3	29.5	35.0	27.7	28.0	25.5	31.8	35.8	28.3	31.3	28.3	18.0
	42.5	31.3	31.3	27.1	30.5	28.8	27.5	32.8	28.3	31.8	28.0	24.3
93-78	39.0	21.8	31.8	23.8	22.0	23.5	27.3	34.8	31.0	32.5	26.5	21.5
	37.0	28.3	31.3	21.9	22.8	24.0	22.0	27.8	24.8	29.3	24.5	21.5
93-80	41.8	31.5	30.3	26.6	26.3	25.0	29.5	33.3	28.5	28.8	25.3	16.5
	43.0	34.0	32.0	29.2	30.3	25.5	28.8	32.5	30.5	32.5	29.8	24.0
93-93	37.8	26.3	30.5	27.1	26.5	27.0	29.0	38.5	35.0	39.0	31.5	24.8
	34.5	26.3	27.5	27.0	27.3	27.3	26.8	38.0	33.3	38.5	34.3	27.0

TABLE 18. Colormeter Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Asphalt Pavement (Kentucky) (continued)

SAMPLE NUMBER	COLORMETER MEASUREMENTS											
	JUN 1993	JUL 1993	AUG 1993	SEPT 1993	OCT 1993	NOV 1993	DEC 1993	JAN 1994	FEB 1994	MAR 1994	APR 1994	MAY 1994
Paint-Solvent, Yellow (60 sec) (cont.)												
93-94	42.0	26.0	30.0	26.9	24.8	25.5	31.0	40.5	41.8	46.0	34.3	27.0
	38.5	24.5	27.5	25.0	24.8	24.5	25.0	36.8	34.3	38.8	34.8	25.5
93-98	38.3	19.3	22.3	17.1	15.8	17.3	18.5	22.8	20.5	18.0	16.5	15.3
	38.3	19.3	18.3	14.4	14.5	14.5	15.0	17.3	17.5	21.5	16.0	15.3
93-100	37.3	18.0	19.5	15.5	17.0	15.8	18.3	22.3	18.5	16.5	16.0	14.5
	37.5	18.5	18.0	14.1	14.5	14.0	14.3	17.3	15.8	19.8	16.5	14.0
93-112	44.5	25.8	28.3	23.2	26.5	24.5	28.3	35.3	29.5	28.8	24.8	22.3
	43.8	31.0	29.5	28.8	28.0	28.0	24.8	32.0	28.5	28.8	29.5	24.5
Paint-Water, White (60 sec)												
92-33	73.8	45.8	48.0	40.4	31.8	32.3	37.5	50.5	44.8	36.3	36.0	27.8
	70.5	42.3	40.3	36.9	29.8	33.0	33.3	48.0	42.8	47.0	37.3	27.8
92-41	87.3	56.3	57.0	54.6	46.0	42.8	46.8	54.3	56.8	52.8	38.3	30.3
	82.5	57.3	57.3	53.1	51.0	49.3	49.3	59.8	56.0	52.8	47.3	41.0
92-46	74.3	51.5	45.8	43.8	40.8	37.3	42.5	48.8	41.5	38.5	30.0	27.8
	72.5	56.0	40.8	47.6	47.8	42.8	46.3	49.0	46.0	48.3	41.3	36.8
92-54	65.5	33.8	36.3	32.5	29.3	27.8	27.3	35.8	30.8	30.3	23.8	19.5
	62.3	42.8	41.3	35.5	32.0	32.5	33.5	43.0	38.5	37.0	32.3	25.8
92-56	69.0	40.3	40.5	33.4	29.8	28.5	30.5	40.0	38.8	36.3	29.3	22.0
	63.3	38.5	37.8	30.7	28.8	26.3	26.8	37.3	31.5	34.5	30.3	22.3
92-58	70.8	42.0	44.3	35.0	33.5	34.8	37.0	47.3	40.8	42.3	31.8	22.5
	66.5	43.3	41.3	35.2	33.5	32.8	34.0	47.3	43.8	41.5	36.8	32.3
92-64	72.3	47.3	48.5	39.0	37.0	33.3	36.0	49.0	42.5	44.3	39.3	28.5
	69.3	49.0	45.0	41.3	38.5	37.8	36.5	43.5	39.0	42.8	37.3	33.3
92-80	65.8	37.8	38.0	35.0	29.8	28.3	29.8	50.3	50.3	47.5	34.5	21.5
	65.5	36.3	32.0	30.1	31.0	30.8	30.0	41.3	38.0	45.5	35.8	26.8
93-1	84.5	54.5	57.0	51.0	44.8	44.5	47.5	57.8	59.5	50.3	51.3	35.0
	80.3	55.3	53.8	47.8	47.3	42.5	45.3	58.5	55.5	50.5	47.5	43.3
93-14	83.3	57.3	55.0	46.0	47.3	42.8	46.3	54.5	61.5	61.5	56.5	48.0
	79.8	52.0	50.5	46.2	44.5	39.3	43.0	49.8	49.0	51.5	47.5	40.0
93-81	65.8	43.8	43.0	30.0	36.8	33.0	37.5	56.5	55.3	46.8	32.5	26.3
	64.3	44.3	39.0	36.9	36.8	31.3	34.5	51.3	45.0	47.3	40.5	31.5
93-84	69.5	50.8	50.8	37.6	44.5	42.8	47.0	56.3	58.5	50.0	37.8	37.8
	68.5	49.8	44.0	46.0	41.3	41.5	45.5	53.0	55.3	53.0	46.5	38.0

TABLE 18. Colormeter Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Asphalt Pavement (Kentucky) (continued)

SAMPLE NUMBER	COLORMETER MEASUREMENTS											
	JUN 1993	JUL 1993	AUG 1993	SEPT 1993	OCT 1993	NOV 1993	DEC 1993	JAN 1994	FEB 1994	MAR 1994	APR 1994	MAY 1994
93-87	69.0	42.8	44.3	37.1	35.5	34.5	39.3	52.3	52.5	44.3	33.3	31.0
	70.0	49.3	46.3	42.2	41.5	36.5	44.0	52.0	48.3	48.5	38.5	35.3
93-92	68.0	40.5	38.0	37.9	31.0	31.8	33.0	51.8	45.8	41.0	33.0	20.0
	63.5	37.0	37.5	30.5	30.8	30.3	31.8	45.5	43.3	39.0	39.5	29.0
93-97	68.0	54.3	52.0	38.0	38.8	36.3	40.8	48.3	44.3	49.8	39.8	32.3
	65.3	52.5	48.5	44.4	41.0	37.8	40.8	51.3	45.5	46.5	42.8	31.0
93-103	67.0	39.5	35.5	33.1	28.8	28.5	30.0	43.5	40.5	39.0	34.0	21.8
	66.8	37.0	35.8	30.3	26.5	26.3	27.5	36.5	36.8	33.5	31.0	24.8
Paint-Water, Yellow (60 sec)												
92-25	46.3	38.0	34.8	28.9	29.3	27.5	28.3	34.0	32.3	33.5	29.3	22.3
	46.5	37.5	33.0	31.2	29.0	28.8	30.3	35.3	32.8	32.0	28.3	26.0
92-26	46.8	36.3	32.0	28.1	24.8	25.0	26.8	35.3	34.0	36.0	30.3	24.0
	46.0	35.8	30.8	28.3	27.8	25.5	28.0	30.8	29.8	31.0	28.0	22.8
92-27	44.3	35.5	33.3	28.9	28.3	26.3	26.8	30.0	29.8	30.3	27.3	21.5
	43.3	35.0	30.5	28.0	26.8	27.5	28.8	31.0	29.0	30.5	27.0	23.0
92-28	44.0	35.8	31.5	27.2	27.5	26.3	28.8	30.8	32.8	34.8	29.3	23.0
	42.3	37.0	31.5	31.0	28.8	27.5	28.8	33.0	30.0	30.3	27.0	24.8
92-29	46.8	37.3	31.0	28.9	30.3	28.5	29.8	33.3	33.5	31.8	28.8	18.3
	47.0	37.5	33.3	31.4	30.5	30.0	31.8	35.0	31.8	33.5	30.8	26.0
92-31	41.8	33.8	29.0	26.0	24.5	23.3	27.5	32.8	33.0	34.0	28.5	24.3
	39.5	31.8	28.0	25.8	26.0	24.3	25.0	33.0	30.3	29.5	27.8	23.0
92-34	57.3	36.5	37.3	32.3	32.8	33.3	34.5	41.0	42.8	46.0	33.8	23.8
	53.8	37.8	36.0	35.1	32.5	32.3	34.5	38.8	38.0	35.5	33.5	29.0
92-42	52.3	35.5	36.3	32.5	32.8	31.3	32.5	38.0	38.0	36.3	29.8	19.8
	50.0	35.5	34.0	31.6	31.8	29.5	33.0	37.5	36.0	34.3	31.0	27.8
92-43	48.5	34.0	32.5	33.3	31.5	29.0	34.5	35.0	35.5	35.5	29.5	22.8
	49.5	35.5	34.0	31.8	30.5	29.3	33.5	38.0	36.5	36.0	33.3	28.5
92-55	40.8	26.3	26.3	24.5	22.3	23.3	23.5	28.0	27.0	25.5	21.8	18.0
	40.0	27.8	25.5	23.6	23.5	22.0	23.3	27.5	26.0	24.3	19.8	17.0
92-57	42.0	23.8	25.3	19.2	19.0	18.8	20.3	23.5	22.5	24.0	19.3	14.5
	41.5	24.3	26.0	19.2	18.8	18.5	19.0	22.3	19.5	20.0	17.8	14.5
92-59	43.3	28.0	25.8	23.6	23.8	22.8	24.0	28.0	25.8	27.0	20.5	18.5
	41.8	27.0	26.5	22.5	23.5	21.0	24.5	27.3	26.5	23.5	21.5	19.3

TABLE 18. Colormeter Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Asphalt Pavement (Kentucky) (continued)

COLORMETER MEASUREMENTS												
SAMPLE NUMBER	JUN 1993	JUL 1993	AUG 1993	SEPT 1993	OCT 1993	NOV 1993	DEC 1993	JAN 1994	FEB 1994	MAR 1994	APR 1994	MAY 1994
Paint-Water, Yellow (60 sec) (cont.)												
92-60	36.8	25.5	26.0	22.2	22.5	28.0	20.5	28.8	26.8	27.8	25.3	20.3
	36.3	27.3	25.3	22.5	24.0	22.0	22.5	30.3	25.3	26.3	23.0	20.5
92-61	38.0	29.8	22.5	21.3	22.3	22.3	20.3	28.0	27.5	30.5	24.5	15.3
	37.0	30.8	24.3	22.2	20.3	21.0	20.8	25.8	23.8	23.8	21.5	19.0
92-62	39.8	31.8	25.8	25.7	26.0	23.8	24.8	30.0	29.8	29.5	25.5	16.8
	39.8	33.0	26.8	26.4	24.8	24.3	24.8	31.5	29.5	29.0	25.8	21.3
92-65	46.0	33.5	31.8	25.9	26.3	20.3	26.3	34.8	34.5	31.8	30.3	26.3
	45.3	33.5	31.5	28.6	27.0	24.3	30.8	30.3	28.3	30.5	28.3	21.5
92-79	41.0	23.5	23.5	22.8	18.8	19.5	22.0	33.3	33.0	27.8	22.0	17.8
	40.5	23.3	23.5	20.1	19.5	18.5	21.5	29.3	27.0	27.8	23.3	18.5
92-82	39.0	26.3	25.5	24.0	21.0	22.3	22.8	32.5	35.5	25.5	25.5	15.0
	38.0	24.3	22.5	19.5	20.5	20.3	20.5	31.3	29.0	28.5	26.0	19.5
92-83	37.5	24.3	26.0	22.7	21.3	21.3	22.5	34.0	34.0	28.8	22.8	14.8
	37.5	23.0	24.5	19.4	18.8	19.0	20.5	27.8	26.3	25.8	24.8	18.5
92-84	37.0	23.5	28.0	23.1	20.3	18.8	21.8	32.5	34.3	29.5	23.3	15.3
	36.8	21.3	21.5	18.2	18.3	17.8	19.5	27.0	24.3	25.0	23.0	17.8
93-2	42.3	30.0	23.8	21.0	21.5	21.5	22.0	27.8	29.3	29.5	26.5	20.3
	42.3	31.8	28.0	23.5	22.5	23.3	24.3	30.0	25.8	26.3	24.3	21.3
93-8	42.5	32.0	25.0	26.5	25.3	23.8	22.5	30.5	31.8	33.8	27.8	21.3
	42.5	32.8	27.8	27.0	25.8	23.5	23.8	30.8	29.0	32.8	27.3	22.5
93-15	47.0	33.3	29.8	27.4	27.0	23.3	27.8	35.8	35.8	38.3	32.8	28.3
	46.3	33.3	31.3	24.1	26.0	22.8	25.5	31.5	30.3	31.0	27.0	24.3
93-82	39.8	31.3	32.3	26.9	26.3	30.8	26.8	36.8	37.5	34.8	28.0	22.8
	39.3	28.0	31.0	22.2	21.3	22.0	22.3	34.5	29.8	32.8	27.3	22.3
93-83	43.8	31.3	33.8	26.2	27.3	26.5	25.5	37.8	37.8	36.5	28.5	19.8
	42.5	30.5	29.8	28.1	25.8	23.3	29.8	38.3	33.8	34.3	30.5	25.3
93-85	46.5	31.0	32.5	26.5	26.8	26.8	30.8	38.0	36.8	39.3	26.0	19.8
	44.3	31.3	28.0	29.0	27.8	27.8	30.0	37.5	33.5	33.5	31.3	24.8
93-86	46.0	35.5	30.3	27.4	27.0	26.8	30.5	37.3	37.5	32.0	28.3	24.3
	43.8	31.8	29.0	28.3	31.8	26.5	28.5	35.8	32.5	36.8	30.5	24.3
93-88	40.8	30.5	30.0	22.2	27.8	24.0	27.5	35.3	34.5	29.8	26.5	17.3
	39.3	29.5	27.0	26.1	26.0	25.8	25.0	36.5	30.3	30.5	27.0	25.3

TABLE 18: Colormeter Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Asphalt Pavement (Kentucky) (continued)

COLORMETER MEASUREMENTS												
SAMPLE NUMBER	JUN 1993	JUL 1993	AUG 1993	SEPT 1993	OCT 1993	NOV 1993	DEC 1993	JAN 1994	FEB 1994	MAR 1994	APR 1994	MAY 1994
Paint-Water, Yellow (60 sec) (cont.)												
93-89	40.5	24.8	30.5	26.3	25.3	23.8	27.3	35.8	33.3	30.8	23.5	15.8
	41.0	32.0	29.3	23.4	26.5	26.0	27.3	35.0	30.5	33.0	27.3	22.3
93-90	39.0	25.0	25.0	23.8	21.5	22.8	21.8	34.5	35.3	29.3	24.5	16.3
	38.5	24.5	22.0	19.0	21.8	20.0	20.5	28.3	26.5	26.5	23.5	18.3
93-91	40.0	23.3	24.0	19.1	17.5	18.8	20.8	34.5	35.0	33.8	24.0	14.8
	38.8	22.0	21.0	19.0	20.8	19.8	20.5	28.3	27.3	26.3	23.3	17.8
93-96	40.0	30.8	28.8	24.2	23.0	21.5	23.8	29.3	28.3	28.0	25.8	19.3
	39.0	32.5	29.8	24.6	24.8	24.3	24.5	29.3	26.5	28.5	24.0	21.0
93-102	40.0	29.8	31.0	22.6	21.5	20.3	20.8	28.3	28.5	31.3	26.0	20.8
	39.5	31.0	31.5	22.6	23.3	20.5	22.0	29.0	25.3	25.3	22.5	19.8
93-104	41.0	29.8	24.5	22.8	22.8	21.8	21.5	29.5	28.0	30.8	24.8	18.8
	42.3	30.5	27.0	21.8	20.3	20.3	22.3	25.8	23.3	25.8	21.0	18.8
93-105	42.5	30.5	27.3	24.4	22.8	23.5	22.5	29.0	27.5	28.3	25.3	20.3
	41.5	31.8	28.3	23.9	25.0	20.8	24.5	27.8	24.5	25.8	22.5	18.3
Paint-Polyester, White												
92-6	60.3	47.0	49.3	44.0	37.5	37.0	39.8	56.3	57.5	50.8	44.0	22.8
	59.5	43.5	41.3	35.0	32.3	30.0	33.0	52.5	47.0	49.8	41.5	34.3
92-8	62.0	48.5	52.8	46.8	40.3	36.5	44.3	56.0	55.8	39.8	36.0	27.5
	60.5	41.0	43.0	40.3	37.5	33.3	37.0	52.5	48.3	49.0	40.8	33.3
92-10	64.0	52.3	53.8	53.7	43.0	43.0	45.3	56.5	55.5	46.0	38.3	34.0
	61.8	49.3	48.3	39.6	39.3	39.5	42.8	57.3	53.0	55.8	46.8	37.0
92-36	75.8	61.5	62.3	19.2	40.3	43.8	46.0	56.3	39.5	20.5	32.8	32.5
	73.8	61.5	62.5	49.5	54.5	52.0	53.5	59.0	56.3	52.3	41.3	26.5
93-5	86.3	51.3	69.5	50.8	50.0	50.3	59.5	57.8	61.5	59.8	45.0	39.3
	77.3	63.8	65.3	57.8	60.5	58.0	57.8	65.3	60.5	60.8	54.0	46.3
93-70	67.8	62.3	61.3	49.6	52.5	51.0	55.8	56.3	54.0	49.3	49.5	39.8
	66.5	49.3	53.8	48.2	46.5	47.3	51.3	59.5	56.8	54.0	49.0	42.0
93-73	63.8	41.8	43.3	35.7	32.0	31.8	35.5	46.3	50.3	38.8	40.8	36.8
	57.8	34.8	41.8	25.9	26.0	22.5	26.3	38.0	35.5	39.5	32.3	23.8
Paint-Polyester, Yellow												
92-7	40.5	30.0	31.5	28.7	26.8	26.3	28.5	32.8	34.5	34.8	28.8	21.5
	38.8	27.8	26.0	22.7	24.3	25.8	24.8	32.3	29.5	31.0	26.5	22.5

TABLE 18. Colormeter Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Asphalt Pavement (Kentucky) (continued)

COLORMETER MEASUREMENTS												
SAMPLE NUMBER	JUN 1993	JUL 1993	AUG 1993	SEPT 1993	OCT 1993	NOV 1993	DEC 1993	JAN 1994	FEB 1994	MAR 1994	APR 1994	MAY 1994
Paint-Polyester, Yellow (cont.)												
92-9	40.3	30.8	34.0	27.6	28.8	25.5	27.0	35.3	36.5	34.3	30.0	16.5
	39.5	26.0	25.3	22.6	21.8	22.5	23.5	31.0	28.8	30.5	26.0	21.5
92-11	38.0	29.5	32.3	27.8	27.0	26.0	27.0	33.5	34.0	34.0	29.5	21.3
	37.0	26.5	26.3	20.7	22.5	23.5	23.5	30.5	27.5	28.8	26.0	21.5
92-37	45.5	31.5	33.5	30.1	28.5	21.5	28.0	30.5	29.5	30.0	18.5	20.0
	43.5	30.5	31.0	28.6	29.0	25.5	26.0	30.0	30.5	30.5	27.5	25.0
92-38	37.0	30.0	34.3	29.8	26.0	27.3	29.5	26.0	30.8	23.5	25.5	17.5
	35.5	30.8	33.3	30.5	27.5	27.8	27.5	30.3	29.3	30.3	25.3	24.8
93-6	40.0	29.5	27.5	26.9	21.8	18.0	23.5	24.8	25.3	29.5	23.0	16.5
	38.5	31.0	29.5	25.9	24.5	23.0	25.3	25.3	23.8	24.8	23.5	20.8
93-7	45.0	28.0	30.0	25.3	23.8	24.3	25.5	28.5	28.0	27.3	23.0	20.5
	41.0	27.3	29.8	26.5	25.8	23.0	27.0	27.0	25.3	26.3	23.8	21.8
93-71	34.8	23.5	28.8	20.6	20.3	19.3	21.8	30.3	26.8	31.0	25.0	18.3
	32.8	18.5	18.8	14.0	14.5	12.8	16.0	17.8	17.0	19.8	16.8	13.8
93-72	35.8	23.3	26.8	23.0	18.8	18.3	22.5	30.3	30.5	25.0	25.0	21.5
	32.0	20.5	20.8	16.8	15.0	13.8	17.5	22.3	18.5	22.5	18.3	14.3
93-74	37.0	29.8	26.0	22.4	26.8	26.0	27.8	36.5	35.8	32.8	27.0	17.5
	37.8	26.8	24.0	23.0	24.3	25.3	26.8	31.3	32.3	32.3	27.8	21.8
Paint-Methyl Methacrylate Polymer, White												
92-66	62.0	49.5	38.3	55.0	43.0	41.3	39.3	64.8	63.0	69.5	53.0	35.0
	61.3	47.0	34.5	48.5	42.8	40.5	43.3	54.5	48.0	58.8	49.0	34.8
92-68	64.5	43.0	37.5	46.5	35.8	39.5	39.0	65.3	62.0	65.8	52.0	38.5
	61.8	46.5	43.3	44.0	27.8	40.8	46.3	60.3	56.3	67.8	54.0	38.8
92-71	66.0	45.8	37.5	36.5	36.0	33.8	33.8	59.3	52.3	58.8	46.0	28.3
	65.8	46.0	38.3	40.5	33.8	37.8	39.0	53.5	49.0	54.3	40.0	34.5
Paint-Methyl Methacrylate Polymer, Yellow												
92-67	33.5	35.8	21.8	26.5	28.8	31.5	32.5	43.0	42.0	43.8	34.0	23.0
	38.0	34.5	27.8	30.5	24.8	32.5	35.5	38.5	43.5	39.3	35.3	30.3
92-69	31.5	18.5	21.5	15.5	15.0	15.8	20.0	32.3	31.0	34.8	27.5	15.8
	30.8	18.5	20.8	14.5	13.8	16.0	19.5	21.8	22.0	26.3	22.5	19.3
92-70	34.5	25.8	23.3	21.0	18.0	21.3	20.5	39.8	39.3	41.3	33.8	22.0
	33.0	31.5	24.8	23.5	20.0	24.5	24.5	33.0	36.8	36.0	31.8	25.0

TABLE 18. Colormeter Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Asphalt Pavement (Kentucky) (continued)

COLORMETER MEASUREMENTS												
SAMPLE NUMBER	JUN 1993	JUL 1993	AUG 1993	SEPT 1993	OCT 1993	NOV 1993	DEC 1993	JAN 1994	FEB 1994	MAR 1994	APR 1994	MAY 1994
Paint-Methyl Methacrylate Polymer, Yellow (cont.)												
93-65	*	24.0	18.0	*	23.5	22.5	24.0	37.0	36.5	35.0	25.0	19.0
	*	32.0	17.5	*	29.0	28.0	31.0	35.0	34.0	35.0	37.5	29.0
Paint-Multipolymer, White												
92-97	61.8	36.3	25.8	30.0	24.3	21.3	31.0	34.5	37.3	42.5	34.3	22.3
	67.3	34.3	23.3	28.5	25.8	22.5	24.5	30.0	24.8	30.3	27.5	19.8
Paint-Multipolymer, Yellow												
92-99	39.8	23.8	21.5	19.5	18.5	18.3	20.3	25.3	25.8	23.3	18.0	11.0
	38.5	23.3	22.5	20.0	19.5	17.5	20.5	24.0	21.3	21.8	20.5	16.5
Thermoplastic-Alkyd, White												
92-22	76.0	51.5	34.5	50.5	56.0	54.5	70.5	70.0	66.5	76.5	65.5	47.5
	82.5	51.0	37.0	46.0	51.0	43.0	52.0	63.5	60.5	61.0	53.5	44.5
92-72	74.5	66.8	52.3	55.0	59.3	58.0	62.5	73.3	70.0	78.5	64.5	45.3
	72.3	64.8	50.0	61.0	61.5	56.0	62.5	68.0	62.5	67.8	60.0	55.3
93-35	43.5	35.5	32.5	27.5	28.5	29.3	33.8	45.0	41.3	44.5	39.5	26.3
	42.3	33.0	28.3	27.5	28.8	28.8	31.5	35.8	33.8	41.0	36.3	30.8
93-41	62.5	45.3	46.8	38.0	39.0	34.0	43.3	71.0	68.0	72.0	61.5	40.3
	62.8	47.8	47.8	39.5	42.0	40.8	41.5	54.8	50.5	58.8	52.8	43.3
93-43	61.0	52.8	51.3	42.0	48.0	38.8	48.8	56.3	51.8	58.5	49.0	36.3
	61.0	56.0	45.5	46.0	53.8	49.5	49.5	59.3	54.5	51.5	48.8	39.5
93-47	71.0	56.8	48.3	49.0	49.0	49.8	52.0	67.0	58.8	76.8	58.8	49.3
	70.3	58.0	50.3	55.5	59.8	55.0	54.3	63.5	60.3	61.5	55.8	45.8
93-58	70.8	61.5	47.8	60.5	48.8	49.8	53.3	70.8	62.8	69.3	60.8	46.8
	72.0	62.5	50.8	60.5	58.8	53.3	59.8	64.8	58.8	64.5	57.0	55.5
93-69	62.7	44.8	44.7	41.7	44.2	44.3	50.3	60.0	57.5	62.8	50.8	35.3
	62.8	43.0	35.5	39.8	42.2	39.7	44.7	55.8	52.2	55.2	48.2	42.3
Thermoplastic-Alkyd, Yellow												
92-21	38.0	36.5	39.0	34.0	38.0	34.5	42.8	46.0	41.0	43.8	38.8	23.5
	37.3	34.8	36.8	31.0	36.0	34.0	37.8	46.0	43.0	39.3	41.3	37.5
92-73	43.5	39.8	33.0	34.5	37.0	34.5	40.5	46.8	43.8	48.5	39.5	25.8
	45.8	40.8	30.5	40.5	41.0	38.3	43.5	43.3	42.0	43.0	42.0	34.8
93-36	72.3	47.0	49.0	40.0	42.5	39.0	44.0	67.8	67.5	74.0	59.8	36.3
	71.3	55.8	47.8	46.5	50.0	47.8	52.3	58.8	52.8	56.5	48.8	46.8

TABLE 18. Colormeter Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Asphalt Pavement (Kentucky) (continued)

SAMPLE NUMBER	COLORMETER MEASUREMENTS											
	JUN 1993	JUL 1993	AUG 1993	SEPT 1993	OCT 1993	NOV 1993	DEC 1993	JAN 1994	FEB 1994	MAR 1994	APR 1994	MAY 1994
Thermoplastic-Alkyd, Yellow (cont.)												
93-39	41.0	33.5	29.0	26.0	28.3	28.8	33.3	43.5	38.3	45.0	35.5	28.0
	40.5	35.8	28.0	29.0	30.5	29.3	30.8	40.5	34.8	40.8	35.3	29.3
93-40	41.0	34.3	31.0	29.0	25.5	26.3	31.0	43.0	36.3	49.8	37.5	23.8
	41.0	34.3	29.5	29.5	29.8	29.3	31.3	37.5	34.3	37.5	34.5	30.0
93-42	36.0	33.3	27.0	26.5	28.8	26.0	33.5	34.8	33.8	38.8	28.8	22.8
	35.0	32.8	30.5	31.5	31.8	29.0	37.3	35.0	32.0	33.0	30.5	24.3
93-46	40.8	36.3	30.8	32.5	31.3	28.3	35.5	41.8	47.0	48.3	42.0	27.0
	44.8	36.0	31.8	33.5	31.3	33.3	37.0	42.0	37.8	39.8	36.5	29.3
93-59	44.5	43.5	32.5	35.5	38.3	37.0	42.0	46.8	43.5	47.5	40.5	31.0
	45.0	41.0	30.5	40.0	41.3	39.3	41.8	45.3	41.3	43.0	42.3	37.3
93-68	36.3	32.3	30.0	29.5	31.0	30.5	36.8	44.0	41.5	48.3	39.5	29.8
	35.8	30.3	29.5	27.5	30.3	29.3	30.8	40.0	36.8	40.3	39.5	32.3
Thermoplastic-Hydrocarbon, White												
92-14	69.0	56.3	49.0	51.5	60.3	64.3	69.5	72.0	75.8	80.5	69.3	22.5
	66.5	50.5	45.8	55.5	55.0	49.8	55.8	71.0	69.3	77.0	57.8	51.5
92-75	71.3	61.8	52.0	56.5	56.0	56.3	64.5	72.8	67.5	79.0	63.5	40.3
	73.8	64.3	52.0	59.8	57.8	53.3	58.0	73.8	65.0	68.3	65.5	53.8
92-76	80.5	73.0	54.8	66.0	60.0	62.3	60.3	70.3	65.5	74.0	59.5	49.5
	79.0	72.5	58.0	66.0	68.8	64.8	70.5	72.0	66.3	69.5	65.5	58.0
93-32	70.5	52.0	48.3	53.5	58.5	59.5	65.5	69.5	63.3	73.3	54.8	36.5
	69.8	55.0	44.5	46.5	45.8	47.5	52.0	59.3	57.5	61.0	56.8	43.8
93-44	67.8	56.5	52.0	47.5	49.8	50.5	57.3	68.3	61.3	78.3	57.3	48.5
	70.3	58.5	51.8	54.5	53.0	49.8	53.5	64.8	59.8	62.0	54.3	46.8
93-66	56.0	50.3	47.5	48.5	48.0	50.0	52.8	63.0	60.0	69.0	56.8	42.3
	56.0	49.5	46.5	49.5	40.5	47.0	52.0	60.0	57.8	63.8	57.5	49.5
Thermoplastic-Hydrocarbon, Yellow												
92-74	39.3	39.0	33.3	33.5	34.5	34.5	35.8	43.8	41.3	48.5	38.8	29.8
	40.5	39.0	32.5	38.5	37.0	34.8	37.8	57.3	40.0	41.5	36.3	34.3
92-78	47.0	34.3	36.0	33.0	34.3	35.0	38.8	47.8	44.3	46.8	37.5	29.0
	46.8	35.3	32.5	33.0	33.8	31.8	35.5	43.3	39.5	40.3	32.8	30.8
92-98	36.8	30.8	32.8	28.0	29.8	34.0	41.8	44.8	47.5	51.5	43.3	16.5
	36.5	28.0	29.3	23.5	25.5	26.5	****	39.0	37.3	47.0	38.5	32.8

TABLE 18. Colormeter Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Asphalt Pavement (Kentucky) (continued)

COLORMETER MEASUREMENTS												
SAMPLE NUMBER	JUN 1993	JUL 1993	AUG 1993	SEPT 1993	OCT 1993	NOV 1993	DEC 1993	JAN 1994	FEB 1994	MAR 1994	APR 1994	MAY 1994
Thermoplastic-Hydrocarbon, Yellow (cont.)												
93-28	41.3	35.0	29.0	30.0	29.8	32.3	36.8	45.3	41.0	46.3	39.0	28.8
	41.0	35.0	30.8	31.5	26.8	29.8	32.5	37.8	37.0	42.0	39.0	34.0
93-29	40.3	34.0	32.5	28.5	32.3	29.8	35.8	45.3	43.3	45.0	37.3	23.5
	39.8	37.0	34.0	33.5	34.0	32.3	35.3	41.3	38.8	42.5	36.5	31.0
93-33	41.3	34.8	34.8	33.5	31.3	37.0	40.5	39.0	37.0	31.5	22.5	24.5
	41.0	34.3	30.5	32.5	34.8	31.8	38.0	41.8	39.8	37.3	31.8	32.5
93-34	41.0	33.0	37.8	34.5	37.3	38.5	42.3	43.0	38.0	38.8	32.0	20.8
	41.0	32.8	32.8	29.5	27.8	31.0	35.5	38.3	40.5	38.3	35.0	30.5
93-45	39.5	36.5	28.3	30.5	28.3	31.8	34.0	38.0	39.3	48.3	36.3	21.8
	41.5	36.3	33.3	35.0	29.5	32.0	35.8	36.8	36.5	35.0	34.5	28.8
93-60	40.5	39.5	36.0	34.5	34.8	36.3	42.0	45.0	44.3	47.8	40.8	30.8
	41.3	39.8	36.8	38.0	39.0	34.8	38.3	43.8	40.8	44.0	40.3	38.8
93-67	42.0	34.5	38.5	0.0	36.0	36.0	42.5	45.5	51.0	51.0	42.5	23.0
	38.0	32.5	36.0	0.0	34.0	32.0	36.0	42.5	41.0	43.0	35.0	27.0
Thermoplastic-Preformed, White												
92-63	65.8	48.0	56.5	46.0	49.3	39.5	52.8	63.0	57.8	61.3	49.8	43.8
	65.8	49.8	47.5	42.5	44.3	41.5	45.8	53.0	48.3	50.5	52.3	42.5
93-37	48.2	45.3	50.0	35.2	34.7	26.5	37.8	49.2	47.2	50.5	42.3	24.8
	49.3	45.0	53.7	39.7	39.5	38.0	38.5	44.0	41.2	42.0	38.3	31.8
93-38	53.3	56.5	69.5	46.5	45.8	31.0	48.0	58.8	54.8	61.0	44.8	37.0
	51.3	57.5	84.0	55.5	50.5	50.8	55.0	53.5	51.3	51.5	42.8	39.0
93-54	70.0	51.3	59.0	45.0	50.5	43.8	50.3	68.0	63.3	71.5	57.5	44.0
	68.8	51.0	51.8	45.5	49.0	44.3	47.3	62.5	54.5	59.0	53.5	46.0
93-55	62.8	50.5	58.5	44.0	47.8	41.5	54.8	65.3	60.0	67.8	59.8	46.8
	64.3	45.3	46.5	42.5	44.3	40.5	45.3	55.3	51.0	59.0	53.5	42.8
Thermoplastic-Preformed, Yellow												
93-30	49.8	30.0	34.8	22.0	24.3	17.5	28.5	39.3	36.0	39.8	39.3	25.8
	49.3	33.8	41.5	29.8	29.3	27.3	28.0	33.3	30.0	29.5	33.5	23.3
93-31	49.8	31.8	44.3	26.3	26.8	16.8	31.0	41.8	36.0	40.8	40.8	27.5
	49.0	30.3	42.3	26.0	27.3	25.5	26.0	32.3	32.5	36.0	34.8	25.8

TABLE 18. Colormeter Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Asphalt Pavement (Kentucky) (continued)

SAMPLE NUMBER	COLORMETER MEASUREMENTS											
	JUN 1993	JUL 1993	AUG 1993	SEPT 1993	OCT 1993	NOV 1993	DEC 1993	JAN 1994	FEB 1994	MAR 1994	APR 1994	MAY 1994
Permanent Tape, White												
92-1	76.5	54.5	56.8	43.5	52.8	35.0	55.0	59.0	62.5	65.0	49.5	44.0
	75.5	47.3	45.5	44.5	38.5	38.3	53.5	57.8	62.5	62.8	52.3	44.3
92-3	80.8	64.5	71.8	62.5	64.5	48.3	61.8	69.8	70.8	69.8	64.8	49.8
	79.5	66.5	62.3	57.0	60.3	60.3	65.5	61.8	74.3	71.3	64.0	56.3
92-86	80.5	66.8	82.0	63.5	50.3	37.0	57.5	63.0	70.0	71.5	57.3	32.0
	80.8	72.5	81.5	61.5	65.3	61.8	65.5	65.0	70.8	66.0	63.5	50.0
93-23	54.3	40.5	45.8	32.0	35.3	31.5	31.3	44.5	41.0	44.3	39.3	20.8
	54.8	39.8	46.3	35.5	37.8	37.3	39.0	45.8	43.8	40.3	38.0	35.0
93-25	86.3	73.5	79.3	64.0	68.3	41.8	66.3	75.8	71.5	73.0	58.0	43.8
	85.0	72.5	83.8	68.0	67.0	63.5	66.3	75.8	72.0	71.0	56.0	58.3
93-26	83.5	70.5	76.5	56.5	64.8	54.0	63.8	81.0	71.3	74.3	63.3	39.5
	82.8	64.5	77.5	56.0	57.5	54.5	60.3	79.3	68.8	68.3	57.5	54.3
93-49	47.0	37.8	46.0	37.0	37.8	35.5	39.0	45.5	45.5	47.3	42.0	28.0
	47.0	38.3	45.5	38.0	39.8	40.0	41.8	44.8	46.3	42.8	40.5	34.8
93-106	63.8	58.5	63.0	49.5	52.3	46.5	53.8	63.8	58.8	63.5	60.3	40.8
	62.8	56.8	58.5	51.0	54.3	50.0	53.5	57.3	55.3	59.0	52.0	46.5
93-108	85.5	81.0	85.5	78.0	81.8	76.5	83.5	86.3	77.5	88.5	79.8	64.0
	85.5	83.3	83.8	77.5	81.5	78.5	84.8	83.3	83.0	81.5	79.0	68.8
Permanent Tape, Yellow												
92-2	39.3	27.0	29.0	18.0	21.0	16.8	24.3	31.8	36.3	39.5	33.0	26.5
	39.3	26.8	28.8	22.0	22.5	21.8	25.5	43.3	34.3	34.0	27.0	23.3
92-85	41.8	30.5	38.0	28.5	28.3	23.3	29.3	43.5	41.8	38.8	34.5	19.8
	43.8	31.3	36.5	25.5	27.8	27.3	30.0	36.8	37.8	35.3	32.3	26.8
93-17	65.3	37.3	41.3	31.0	34.0	21.0	34.3	42.3	38.0	38.5	35.5	23.5
	63.8	35.8	40.8	32.0	32.3	32.3	32.3	38.3	37.8	35.3	33.5	29.0
93-24	55.3	43.0	47.8	38.5	37.5	36.5	40.0	49.3	43.0	44.5	40.5	22.3
	54.5	40.3	46.8	39.0	39.8	38.5	40.8	45.8	46.0	43.0	40.0	34.8
93-27	51.8	38.3	38.5	33.0	31.3	27.5	34.3	42.0	39.0	39.8	41.8	23.8
	51.8	35.0	41.8	35.0	32.3	33.0	33.8	40.3	38.8	36.3	41.3	29.5
93-48	76.5	66.5	90.8	59.0	67.0	49.0	68.5	73.8	72.0	81.0	67.5	37.8
	77.0	66.8	90.0	64.5	67.8	62.5	65.5	73.0	73.5	76.5	67.8	57.5
93-107	46.3	38.3	41.0	34.0	35.8	32.8	37.0	48.0	43.5	46.5	39.0	24.3
	46.5	38.5	40.3	34.0	36.0	35.0	37.0	43.5	40.3	41.3	37.0	31.0

TABLE 18. Colormeter Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Asphalt Pavement (Kentucky) (continued)

COLORMETER MEASUREMENTS												
SAMPLE NUMBER	JUN 1993	JUL 1993	AUG 1993	SEPT 1993	OCT 1993	NOV 1993	DEC 1993	JAN 1994	FEB 1994	MAR 1994	APR 1994	MAY 1994
Permanent Tape, Yellow (cont.)												
93-109	50.5	48.0	51.3	45.5	47.3	38.3	44.8	50.8	49.5	55.3	45.8	36.0
	50.8	48.3	50.8	47.0	48.5	47.8	49.5	50.5	52.0	52.0	46.5	41.8
Temporary Tape, White												
92-92	78.3	54.0	57.8	44.8	51.0	43.0	53.5	69.0	66.0	64.5	57.5	31.0
	78.8	55.3	57.5	47.5	49.3	47.5	49.3	66.5	61.8	66.3	62.5	50.3
93-56	60.0	43.8	57.8	39.0	49.5	34.8	44.5	65.5	60.8	71.3	60.5	38.0
	59.8	42.5	56.8	44.5	52.0	48.3	53.3	66.8	65.8	67.3	57.0	51.8
Temporary Tape, Yellow												
92-90	46.3	30.0	30.8	29.0	30.3	24.3	31.5	39.5	41.3	40.3	40.8	22.3
	45.3	29.5	30.3	29.0	28.3	27.3	29.3	45.8	35.3	37.8	33.0	27.3
93-57	36.0	26.8	34.8	27.0	29.3	25.0	28.8	51.0	44.0	50.5	40.5	22.5
	37.3	28.0	31.3	28.0	31.0	30.5	32.3	41.0	43.0	40.3	36.0	33.8
93-64	43.0	30.8	34.0	24.5	30.0	23.3	31.0	40.3	43.3	45.5	33.5	28.3
	42.3	27.0	28.8	24.5	29.3	26.8	31.5	39.5	39.0	40.5	34.0	29.8

* Top number is left wheeltrack measurement and bottom is centerline measurement.

TABLE 19. Colormeter Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Portland Cement Concrete Pavement (Kentucky)

COLORMETER MEASUREMENTS												
SAMPLE NUMBER	JUN 1993	JUL 1993	AUG 1993	SEPT 1993	OCT 1993	NOV 1993	DEC 1993	JAN 1994	FEB 1994	MAR 1994	APR 1994	MAY 1994
Paint-Solvent, White (60 sec)												
92-17*	80.5	46.0	42.8	43.5	52.3	42.5	41.0	49.3	53.5	51.8	36.5	30.8
	81.0	47.8	43.8	43.3	44.3	43.3	41.3	56.8	52.5	54.5	38.3	38.0
92-39	93.8	49.0	50.8	46.8	59.0	55.3	51.0	57.0	59.0	58.5	43.0	36.5
	88.0	46.3	44.8	43.8	43.8	44.5	46.8	60.5	55.8	66.0	48.0	42.8
92-48	73.0	42.0	38.8	37.3	41.8	31.0	31.5	41.5	43.5	56.8	36.0	30.8
	72.5	46.3	42.0	39.8	38.8	37.8	36.0	42.3	37.3	52.3	35.8	32.0
92-50	75.3	46.8	42.0	42.0	45.0	36.0	35.8	45.3	46.3	48.0	41.3	31.0
	75.3	49.3	47.5	43.5	41.3	43.5	40.8	46.5	42.3	49.8	38.5	34.0
93-3	96.8	52.8	51.3	35.5	50.5	51.0	46.5	52.3	53.5	59.8	35.3	34.8
	97.0	53.0	47.5	44.3	42.0	45.8	42.0	56.5	50.5	60.3	42.0	38.0
93-9	72.5	48.8	44.8	37.5	42.8	38.3	36.8	36.5	37.8	56.5	35.0	29.3
	73.0	52.8	48.0	44.3	41.8	37.8	36.3	36.3	34.0	49.0	32.3	28.0
93-12	78.3	47.5	44.3	41.0	48.0	35.8	44.8	42.5	44.0	54.3	33.8	30.8
	77.3	49.3	47.0	42.3	41.5	39.3	40.5	44.3	41.8	52.8	34.3	31.3
93-75	74.0	47.3	45.3	43.8	52.0	44.3	44.8	47.0	46.0	48.0	37.3	30.3
	73.0	49.3	47.5	47.5	42.3	44.8	42.5	48.8	43.0	48.0	40.5	34.3
93-77	77.3	51.0	48.8	47.5	55.5	45.3	46.8	45.8	49.3	49.8	38.3	31.8
	77.3	52.0	51.0	49.0	52.3	47.5	46.3	51.5	48.0	51.8	42.8	36.8
93-79	72.3	52.0	51.5	51.8	60.5	50.0	50.5	46.5	47.0	49.5	44.0	31.8
	74.5	54.8	51.0	51.0	51.5	48.8	46.5	47.5	49.0	48.5	40.5	38.3
93-95	62.5	39.3	39.0	39.8	50.8	39.0	46.0	56.3	63.3	63.5	49.3	39.0
	59.3	38.0	37.3	36.8	35.3	38.0	40.0	57.3	55.5	53.8	48.3	38.5
93-99	71.8	44.8	37.0	43.0	47.5	47.5	42.8	50.0	50.5	62.3	43.3	35.8
	66.5	46.3	41.3	41.5	42.0	43.8	42.0	50.0	46.0	52.3	43.0	36.5
93-101	75.0	48.3	47.5	46.3	51.3	41.8	44.0	49.0	50.3	59.0	41.3	33.0
	71.3	52.0	47.0	46.3	43.8	45.0	43.0	53.5	48.5	53.3	43.5	37.3
93-113	72.8	51.8	47.0	45.5	54.0	48.0	46.8	47.5	49.3	52.8	40.8	33.3
	73.3	50.8	47.5	46.0	52.3	43.5	43.5	50.0	46.8	49.5	40.5	35.8
Paint-Solvent, Yellow (60 sec)												
92-18	77.0	48.8	46.5	41.3	47.3	34.8	47.3	42.0	49.5	57.5	38.0	29.5
	80.5	47.5	43.8	43.5	43.0	42.3	42.8	47.3	45.5	51.0	36.5	34.8
92-19	45.5	32.3	34.3	28.3	32.5	30.3	28.5	30.8	32.8	41.5	27.8	21.5
	43.8	32.3	30.0	29.3	31.0	30.8	28.5	33.0	28.3	34.3	28.3	22.8

TABLE 19. Colormeter Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Portland Cement Concrete Pavement (Kentucky) (continued)

SAMPLE NUMBER	COLORMETER MEASUREMENTS											
	JUN 1993	JUL 1993	AUG 1993	SEPT 1993	OCT 1993	NOV 1993	DEC 1993	JAN 1994	FEB 1994	MAR 1994	APR 1994	MAY 1994
Paint-Solvent, Yellow (60 sec) (cont.)												
92-20	45.8	28.3	29.3	26.3	33.5	26.5	28.0	30.5	34.3	43.0	30.5	25.0
	49.3	30.5	28.3	27.8	30.3	28.3	26.8	32.5	28.3	37.0	27.3	22.0
92-23	49.5	31.8	30.5	27.5	35.8	25.5	26.3	33.8	36.8	39.3	26.5	24.0
	47.8	32.5	31.8	30.3	30.5	28.8	27.8	33.5	32.3	40.5	27.0	25.8
92-40	68.5	31.3	30.8	29.0	36.0	32.3	32.8	35.3	36.3	45.0	26.3	22.3
	71.8	32.3	30.3	28.5	28.5	30.0	29.3	38.3	36.3	42.3	32.5	26.0
92-47	45.8	22.5	20.5	20.3	24.0	24.0	22.3	26.0	27.5	37.8	24.0	19.5
	40.3	22.8	20.0	20.0	18.3	22.5	18.5	24.8	24.8	31.8	22.8	19.0
92-49	46.5	22.8	20.8	20.3	25.0	22.5	22.8	27.0	27.3	41.3	26.8	21.3
	42.3	23.5	20.0	18.8	17.8	20.3	18.5	24.3	23.3	33.0	30.8	20.0
92-51	46.8	25.5	23.0	20.8	26.0	22.8	23.5	26.8	26.0	36.3	24.8	20.5
	43.8	24.5	22.8	20.8	20.5	22.0	20.3	26.5	24.5	32.3	23.0	19.0
92-53	46.3	27.0	25.5	23.3	28.5	26.5	28.3	27.3	26.8	37.5	23.0	20.8
	42.8	27.0	24.0	23.5	23.0	24.3	21.0	28.8	26.8	37.8	23.5	21.0
92-81	34.8	24.0	23.5	23.8	31.3	25.8	30.3	35.0	42.3	42.3	34.8	25.8
	34.5	23.8	22.3	23.3	26.0	24.0	27.3	38.3	38.3	47.3	32.8	28.5
93-4	74.8	29.8	29.3	27.8	34.5	32.5	32.0	37.8	41.3	44.5	31.3	25.5
	72.0	32.3	30.0	27.5	29.8	30.5	29.0	39.3	36.8	44.3	32.0	25.8
93-10	51.0	37.3	33.3	31.5	37.5	35.3	31.0	32.0	34.8	42.3	30.0	24.8
	48.8	39.5	34.0	34.5	36.8	33.0	31.8	35.3	33.5	35.5	32.8	25.8
93-11	42.5	28.0	25.5	25.8	29.5	28.5	25.0	27.0	29.0	37.3	26.3	21.0
	41.0	29.3	28.0	27.3	29.8	27.8	27.0	30.5	27.8	34.0	28.0	22.3
93-13	44.0	32.5	30.3	30.8	34.5	31.3	30.3	31.8	34.5	37.5	27.0	23.0
	43.3	33.0	31.3	30.3	31.5	31.5	29.8	33.8	32.5	38.0	30.8	23.8
93-76	45.8	36.3	35.8	34.3	39.8	33.0	36.8	36.5	39.8	43.5	33.5	26.3
	46.5	33.5	33.8	33.3	36.8	33.5	35.3	37.0	35.5	42.8	33.8	27.5
93-78	44.0	32.3	30.5	29.8	36.3	31.8	34.3	34.5	34.3	41.0	32.0	27.0
	46.5	31.5	31.5	32.5	31.0	31.0	31.0	35.5	33.8	37.8	33.3	26.5
93-80	41.5	30.8	29.8	29.0	36.5	32.3	34.3	33.0	36.0	43.8	28.3	23.8
	43.8	30.5	28.8	28.3	25.5	27.3	30.5	33.3	33.3	34.5	29.0	25.8
93-93	37.5	26.8	28.0	29.8	37.8	33.0	34.3	43.8	41.0	49.3	35.0	28.5
	37.0	27.3	27.0	26.3	31.8	29.0	31.0	42.5	41.0	46.3	36.3	31.8

TABLE 19. Colormeter Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Portland Cement Concrete Pavement (Kentucky) (continued)

SAMPLE NUMBER	COLORMETER MEASUREMENTS											
	JUN 1993	JUL 1993	AUG 1993	SEPT 1993	OCT 1993	NOV 1993	DEC 1993	JAN 1994	FEB 1994	MAR 1994	APR 1994	MAY 1994
Paint-Solvent, Yellow (60 sec) (cont.)												
93-94	42.0	25.5	26.3	25.8	34.8	28.3	33.8	40.0	44.5	43.0	38.0	29.0
	39.5	23.8	24.0	24.3	27.5	25.3	28.3	41.8	38.3	46.0	38.3	29.8
93-98	51.5	21.5	19.3	19.5	26.0	23.5	23.3	26.3	25.5	31.3	22.8	20.8
	41.3	23.0	19.8	18.8	19.8	20.8	18.0	23.0	23.0	33.3	19.5	18.0
93-100	44.5	21.3	20.3	18.5	25.0	22.3	24.0	25.8	25.5	34.3	24.0	19.5
	41.0	22.5	20.0	19.5	18.3	19.5	18.5	25.0	21.8	29.8	20.0	18.3
93-112	43.8	30.8	29.8	28.8	36.8	30.5	33.0	33.5	34.8	40.5	26.3	25.0
	46.0	30.3	28.0	29.3	29.3	27.8	28.8	32.5	32.8	39.0	28.5	25.8
Paint-Water, White (60 sec)												
92-24	66.8	44.5	45.8	44.0	56.0	43.8	50.0	51.0	56.8	63.0	42.8	40.3
	69.8	43.8	40.0	38.8	38.0	39.3	39.5	52.3	50.8	61.3	40.0	37.8
92-30	76.3	58.0	46.8	53.3	58.0	41.8	52.0	53.5	59.0	60.0	49.3	38.0
	75.0	53.3	52.8	50.5	52.3	51.3	49.0	60.8	57.8	53.5	49.5	44.0
92-33	91.0	54.3	50.8	51.5	61.0	52.8	52.5	57.5	64.5	72.5	55.5	42.5
	82.3	50.8	48.8	46.5	45.0	49.8	48.3	61.8	59.0	63.0	52.8	45.0
92-41	82.0	47.0	44.0	40.5	47.8	46.0	41.0	52.8	50.3	63.8	39.8	36.5
	73.5	46.0	42.3	40.0	37.5	42.3	39.0	55.0	51.8	58.8	44.3	39.3
92-46	74.3	44.5	43.5	40.0	41.5	30.8	33.3	43.3	46.3	55.3	41.3	32.0
	71.5	47.8	44.0	41.8	41.8	39.5	38.0	45.5	42.3	53.0	40.8	31.3
92-54	69.0	43.0	41.3	39.8	45.3	45.0	39.0	44.3	46.8	56.5	41.5	32.0
	64.5	45.0	40.8	38.0	35.5	40.0	37.5	50.8	46.5	53.0	42.8	32.0
92-56	72.8	43.3	41.0	37.8	41.8	39.8	36.5	44.3	43.0	56.5	35.3	31.0
	69.8	42.5	37.5	33.3	31.8	36.8	34.5	40.3	40.3	46.3	35.5	30.0
92-58	71.5	43.8	45.8	41.5	46.8	45.5	41.5	48.5	49.0	56.8	40.3	33.5
	69.3	45.5	42.3	40.5	40.5	41.3	41.8	47.3	45.0	52.5	41.3	34.5
92-64	91.8	54.5	48.3	42.5	52.3	53.5	46.8	44.5	48.5	52.0	35.8	32.5
	76.3	55.8	51.5	44.3	44.5	46.3	42.0	49.5	39.5	50.8	36.8	32.5
92-80	64.3	34.8	32.0	33.5	38.8	31.0	34.8	42.0	49.5	57.0	39.0	33.0
	64.5	34.8	30.8	28.0	29.3	30.0	33.8	46.5	41.0	46.8	36.0	32.0
93-1	92.3	52.0	48.5	45.5	54.8	48.8	48.3	54.3	61.0	67.8	48.8	45.3
	81.0	53.5	47.8	43.5	42.5	43.5	43.0	59.8	56.0	63.5	52.8	43.5
93-14	70.8	36.3	36.3	34.3	43.5	36.3	37.3	46.5	54.5	51.0	46.3	37.8
	69.3	39.0	33.8	31.8	35.8	35.5	32.8	48.0	45.5	49.3	42.3	35.5

TABLE 19. Colormeter Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Portland Cement Concrete Pavement (Kentucky) (continued)

COLORMETER MEASUREMENTS												
SAMPLE NUMBER	JUN 1993	JUL 1993	AUG 1993	SEPT 1993	OCT 1993	NOV 1993	DEC 1993	JAN 1994	FEB 1994	MAR 1994	APR 1994	MAY 1994
Paint-Water, White (60 sec)												
93-81	70.0	54.8	52.8	55.3	51.5	49.0	58.8	56.3	66.3	73.3	46.8	45.0
	72.3	51.3	49.8	48.8	51.8	49.8	52.8	58.5	61.8	66.5	45.0	48.0
93-84	69.3	44.3	40.0	38.3	45.0	43.5	40.8	51.8	60.0	67.0	51.8	40.3
	60.8	41.0	36.3	32.3	34.3	32.3	35.3	51.8	51.3	56.5	47.0	38.0
93-87	71.5	56.5	46.8	52.5	56.5	57.0	52.3	48.8	56.5	59.3	39.8	36.0
	74.8	55.0	51.5	54.0	55.3	52.8	53.5	60.5	57.8	69.8	43.5	44.5
93-92	63.8	31.3	31.5	29.0	37.8	32.3	34.5	44.3	56.5	52.8	39.3	31.5
	61.8	34.5	29.3	28.0	29.0	29.5	30.0	41.3	41.3	49.0	37.5	31.0
93-97	67.8	37.3	39.0	31.8	36.5	33.3	35.5	43.5	46.0	60.3	39.0	30.3
	66.8	36.3	30.5	29.3	28.8	31.8	30.3	41.3	36.5	45.3	37.0	29.8
93-103	66.8	37.8	37.5	34.0	35.3	35.8	33.8	45.3	47.5	61.3	42.0	32.8
	63.0	37.8	31.5	30.0	28.8	27.8	30.5	36.3	37.5	43.5	36.0	27.3
Paint-Water, Yellow (60 sec)												
92-25	39.3	27.8	27.5	25.0	33.3	26.0	31.3	31.3	33.5	38.3	28.0	23.3
	42.3	28.0	25.5	26.0	23.8	27.0	25.8	32.0	32.0	38.8	26.8	22.8
92-26	36.0	24.3	24.0	22.3	28.0	23.3	27.0	28.0	33.0	44.0	28.3	22.3
	39.0	25.5	23.0	22.5	22.0	24.3	23.0	29.0	30.3	39.0	26.3	22.8
92-27	39.0	27.3	26.8	26.5	32.3	29.0	30.3	28.5	30.0	35.5	31.0	23.3
	39.8	26.5	23.8	22.3	24.0	25.5	24.0	30.0	28.5	37.0	31.0	20.8
92-28	38.5	29.0	26.5	26.0	31.5	27.0	28.5	31.0	33.5	40.5	29.3	25.8
	38.0	26.8	25.0	24.8	25.5	25.3	24.8	31.8	31.0	41.0	28.5	24.3
92-29	37.3	27.0	27.8	27.0	29.5	25.5	30.8	30.0	31.3	41.0	27.5	24.3
	39.8	27.0	25.5	24.8	27.0	24.3	25.8	33.0	31.5	38.8	26.8	23.5
92-31	36.5	27.8	27.3	27.0	30.5	25.0	32.0	31.5	35.8	42.5	29.3	25.8
	37.0	25.8	25.5	26.0	25.0	26.8	26.5	34.5	34.8	42.0	29.0	24.5
92-34	54.3	32.3	31.0	28.8	34.5	32.8	31.0	36.8	38.3	48.3	34.3	26.8
	52.8	33.8	29.8	28.8	27.5	29.8	30.3	37.8	36.0	46.5	33.0	28.0
92-42	59.8	35.8	33.8	32.3	38.5	38.3	36.0	36.3	38.0	47.3	30.5	28.0
	50.3	35.0	31.8	30.8	31.8	33.0	31.5	36.8	36.3	40.3	31.5	27.0
92-43	44.0	30.3	29.3	31.5	32.5	31.3	30.3	32.5	34.3	41.8	29.3	24.5
	43.5	30.8	29.0	28.0	29.3	32.0	28.3	33.3	31.8	37.5	27.8	23.5
92-55	57.0	25.3	25.0	23.0	28.0	24.3	25.0	29.3	30.3	38.5	26.8	21.3
	54.8	26.8	24.5	22.0	21.8	24.0	24.0	29.0	27.0	36.3	23.5	20.3

TABLE 19. Colormeter Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Portland Cement Concrete Pavement (Kentucky) (continued)

SAMPLE NUMBER	COLORMETER MEASUREMENTS											
	JUN 1993	JUL 1993	AUG 1993	SEPT 1993	OCT 1993	NOV 1993	DEC 1993	JAN 1994	FEB 1994	MAR 1994	APR 1994	MAY 1994
Paint-Water, Yellow (60 sec) (cont.)												
92-57	97.5	23.5	21.5	19.3	23.0	21.8	20.3	24.0	26.8	34.0	21.3	18.8
	66.3	23.8	20.8	19.3	17.3	19.8	19.0	22.5	22.0	39.3	20.3	18.0
92-59	70.5	25.8	24.8	24.0	28.5	25.3	25.8	27.5	30.8	36.5	23.5	19.5
	67.0	25.8	22.5	22.3	22.5	23.8	22.3	28.8	26.0	32.5	22.3	20.5
92-60	71.5	26.0	25.3	24.0	29.0	26.5	26.3	29.3	31.5	41.3	26.5	23.0
	61.3	25.8	21.8	22.5	21.8	23.5	24.8	30.0	26.5	36.0	24.8	22.0
92-61	66.3	25.5	25.3	23.8	27.5	26.5	25.3	29.0	30.8	42.0	28.0	22.5
	63.3	25.8	24.0	19.0	21.0	24.0	21.3	27.5	26.3	41.0	25.5	20.0
92-62	67.0	28.8	29.0	27.3	29.8	28.0	30.3	30.5	35.5	42.5	26.0	23.0
	66.0	28.5	27.8	24.8	26.0	29.0	27.8	30.8	30.5	38.3	26.3	22.5
92-65	47.0	32.0	32.5	28.0	32.5	30.8	28.3	35.0	33.8	46.3	31.5	26.5
	46.3	30.8	29.0	25.3	26.0	28.5	28.0	30.5	31.0	35.0	29.8	23.5
92-79	38.5	22.0	19.5	19.8	24.8	21.3	23.0	29.3	32.5	36.5	32.5	20.8
	38.8	21.3	18.8	19.0	19.0	18.3	21.3	31.5	28.0	31.8	27.8	20.0
92-82	38.3	22.7	20.5	20.7	24.7	21.3	22.5	28.5	34.3	35.7	26.2	23.0
	36.7	22.5	19.8	19.2	19.3	20.2	21.3	30.7	28.5	35.2	25.0	23.3
92-83	38.3	23.0	21.5	19.8	27.5	23.0	25.0	31.0	37.3	39.0	29.0	23.8
	38.5	23.8	21.0	20.0	22.8	21.0	21.8	32.0	30.3	35.0	25.3	21.8
92-84	38.0	21.3	19.3	19.3	27.0	20.8	21.5	29.3	35.3	37.8	28.8	22.3
	38.8	21.5	20.3	18.8	20.0	19.0	20.5	29.3	26.8	32.8	23.8	20.5
93-2	39.5	20.0	20.5	17.8	22.3	20.3	21.0	25.5	31.8	37.8	29.3	20.3
	37.5	22.0	19.8	18.5	18.3	18.8	18.5	23.3	22.8	32.8	21.8	19.8
93-8	42.3	29.5	29.5	25.5	29.8	28.3	27.5	30.8	33.3	42.8	27.3	24.3
	42.8	29.8	27.8	25.0	27.8	27.8	25.5	30.5	28.8	36.0	26.8	22.5
93-15	35.5	25.3	24.0	25.8	29.3	23.5	26.0	32.5	36.0	44.0	31.8	27.3
	39.3	25.5	24.8	24.0	24.3	26.0	23.8	34.3	33.5	40.8	29.5	27.5
93-82	42.0	25.5	35.0	24.0	29.0	20.0	22.0	32.5	35.5	44.5	37.5	25.0
	39.5	23.0	32.0	21.0	20.0	20.5	23.0	32.5	30.5	40.5	31.5	23.0
93-83	42.8	28.3	25.3	28.0	31.3	26.3	27.0	32.5	42.3	47.3	31.5	28.0
	41.3	28.0	24.5	25.3	25.5	26.8	26.0	36.8	33.0	39.5	32.8	27.0
93-85	42.3	27.3	26.5	25.0	31.3	29.3	26.3	32.0	37.0	42.0	32.3	25.5
	40.3	26.0	23.8	24.8	24.3	24.5	25.5	34.8	32.0	35.0	30.0	24.3

TABLE 19. Colormeter Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Portland Cement Concrete Pavement (Kentucky) (continued)

SAMPLE NUMBER	COLORMETER MEASUREMENTS											
	JUN 1993	JUL 1993	AUG 1993	SEPT 1993	OCT 1993	NOV 1993	DEC 1993	JAN 1994	FEB 1994	MAR 1994	APR 1994	MAY 1994
Paint-Water, Yellow (60 sec) (cont.)												
93-86	46.5	30.8	31.0	31.3	36.5	35.0	32.0	36.8	41.3	47.0	38.3	30.3
	42.8	30.8	28.5	27.8	29.3	29.5	28.5	40.0	38.0	44.3	35.5	30.8
93-88	40.8	30.3	29.0	28.0	33.8	32.3	30.3	34.5	40.0	45.8	33.3	27.5
	39.5	27.8	27.5	24.5	26.8	29.5	29.5	36.3	35.3	40.3	33.8	28.3
93-89	46.0	32.0	30.5	31.5	35.5	28.8	30.8	34.3	38.0	44.3	33.3	25.0
	46.8	32.0	29.3	29.0	28.3	32.3	29.5	38.3	33.3	41.3	32.3	26.5
93-90	35.8	22.3	21.8	20.8	23.5	22.0	22.0	30.8	38.5	40.0	30.5	24.0
	36.3	22.0	20.8	18.0	19.8	20.0	20.3	31.5	28.8	34.0	25.0	21.5
93-91	38.8	22.5	21.5	21.5	31.3	22.0	23.3	28.8	35.3	39.0	27.0	21.3
	38.0	23.0	20.5	17.8	22.0	21.0	21.5	30.8	27.0	33.5	23.5	20.5
93-96	68.8	29.0	27.3	27.0	31.3	29.3	29.8	32.0	34.3	41.0	29.0	25.3
	69.3	30.0	28.3	25.8	27.8	29.5	27.3	33.5	30.8	35.0	28.5	24.3
93-102	71.8	26.3	25.5	22.8	27.5	24.8	26.3	30.8	33.8	40.5	29.0	23.3
	66.3	26.5	24.8	21.5	26.3	22.5	22.3	29.3	27.3	34.8	26.5	22.8
93-104	75.8	27.3	27.5	26.3	30.0	28.3	27.8	31.3	31.3	37.8	27.5	22.0
	74.5	28.8	27.5	25.8	28.5	28.0	25.8	30.5	27.5	36.0	25.0	21.5
93-105	73.5	27.0	25.8	23.8	29.5	28.0	26.8	29.3	29.8	38.0	25.3	21.3
	71.5	27.0	25.0	22.5	26.5	26.5	23.5	28.0	26.0	36.5	23.8	20.5
Paint-Polyester, White												
92-6	68.5	48.0	47.3	43.5	52.3	45.8	48.0	50.5	56.3	60.5	49.0	44.5
	67.5	44.8	46.0	39.3	39.3	41.0	40.5	54.3	53.5	53.8	43.3	40.5
92-8	68.8	50.3	54.3	52.5	58.5	50.5	56.0	49.8	61.5	56.5	36.0	42.3
	70.0	49.0	49.8	48.5	51.8	48.5	44.0	57.0	57.5	56.0	45.3	40.0
92-10	69.3	51.8	46.3	50.0	54.8	50.5	52.3	52.0	61.8	56.5	48.8	39.8
	68.0	49.3	45.0	42.3	48.3	47.0	45.5	55.5	55.5	58.3	48.3	36.3
92-36	90.5	62.5	59.0	58.3	61.8	57.3	53.8	49.0	53.8	69.0	49.5	41.8
	83.5	64.0	60.3	59.0	55.5	59.0	53.8	60.5	56.5	62.5	54.0	40.5
93-5	84.5	64.7	64.7	64.0	69.7	67.7	55.3	60.0	46.3	72.0	53.0	49.7
	75.8	67.3	61.7	64.7	64.3	62.3	59.3	64.7	61.7	70.0	57.3	51.7
93-70	68.0	52.8	50.0	54.0	58.8	52.0	54.3	51.8	59.0	61.5	47.5	40.5
	66.8	49.0	50.0	47.8	45.0	48.3	47.5	59.0	55.5	51.0	46.0	40.8
93-73	67.8	44.3	47.8	43.0	49.3	42.3	46.3	51.0	56.8	61.5	42.0	36.8
	64.3	38.0	37.0	35.8	41.0	39.5	38.0	51.8	49.5	59.8	39.8	36.3

TABLE 19. Colormeter Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Portland Cement Concrete Pavement (Kentucky) (continued)

SAMPLE NUMBER	COLORMETER MEASUREMENTS											
	JUN 1993	JUL 1993	AUG 1993	SEPT 1993	OCT 1993	NOV 1993	DEC 1993	JAN 1994	FEB 1994	MAR 1994	APR 1994	MAY 1994
Paint-Polyester, Yellow												
92-7	39.5	26.3	25.5	24.5	28.5	22.8	28.8	29.8	32.8	41.0	31.3	22.5
	40.3	25.3	23.3	19.8	20.5	23.0	25.5	32.5	30.5	36.8	30.3	22.3
92-9	40.5	30.0	27.5	27.5	32.0	27.0	32.3	32.0	39.5	41.8	34.5	25.3
	40.8	28.8	27.3	25.5	28.0	25.5	27.3	36.3	35.0	42.3	32.5	25.8
92-11	39.0	29.0	26.8	26.0	32.0	25.5	29.8	27.3	34.0	41.8	31.5	23.3
	38.0	26.3	24.8	25.0	23.5	25.3	25.5	32.5	30.5	39.8	29.8	23.8
92-37	49.5	33.0	30.5	31.3	37.0	32.8	31.5	33.0	33.5	39.5	27.8	24.8
	42.8	33.5	31.0	31.3	32.8	31.0	30.8	33.5	31.8	39.0	29.5	25.3
92-38	42.5	34.0	33.0	32.3	38.8	37.5	32.5	34.3	34.8	44.5	30.3	25.5
	38.5	34.8	32.3	33.3	34.3	34.0	32.3	32.8	32.0	38.8	30.8	27.5
93-6	43.0	26.5	27.3	24.3	31.8	29.3	25.0	35.0	30.0	40.3	27.5	22.0
	39.5	32.0	27.5	26.3	27.5	27.5	25.8	37.8	26.5	34.5	24.3	19.8
93-7	46.3	29.8	26.0	24.3	30.0	28.3	25.5	27.8	28.8	38.3	26.0	21.5
	43.3	29.5	26.3	26.5	25.0	27.8	27.0	27.0	27.0	33.3	24.8	21.5
93-71	35.5	22.5	23.0	23.5	29.5	23.8	27.0	30.0	33.0	42.3	26.0	21.3
	38.3	21.8	20.3	19.8	18.3	19.5	19.8	30.3	27.8	41.0	28.0	21.3
93-72	31.5	21.5	21.8	22.0	27.0	21.5	25.0	29.5	35.3	41.0	32.0	23.8
	35.3	19.3	19.3	16.0	19.0	20.0	19.5	30.0	28.5	42.8	32.5	21.5
93-74	36.5	24.8	23.0	20.8	28.0	23.5	26.8	30.3	35.8	40.5	28.3	25.8
	36.8	22.5	21.0	21.3	18.8	20.5	23.3	30.5	29.5	37.3	25.5	22.8
Paint-Methyl Methacrylate Polymer, White												
92-66	102.3	47.3	43.5	38.0	43.3	40.5	41.0	49.3	62.0	50.8	52.8	39.3
	98.5	45.5	41.0	42.3	46.0	40.5	41.0	63.0	61.8	57.3	52.0	42.5
92-68	104.3	45.0	44.5	41.5	48.8	45.3	45.3	56.8	68.5	51.8	52.8	44.5
	101.5	47.5	41.8	41.0	43.0	41.5	42.8	64.8	67.3	61.8	57.0	49.5
92-71	95.8	42.3	41.0	39.8	43.8	39.0	37.0	47.3	58.0	54.5	47.3	34.3
	95.5	44.5	40.0	37.3	41.0	37.5	38.8	55.0	52.5	54.3	43.3	36.0
Paint-Methyl Methacrylate Polymer, Yellow												
92-44	35.3	28.8	28.5	28.3	33.3	30.8	32.0	33.0	41.8	51.3	33.0	29.0
	38.8	28.0	26.8	27.3	32.0	29.3	29.0	37.8	43.3	47.3	31.0	30.0
92-67	54.3	23.8	21.8	21.0	25.0	22.5	23.5	28.0	36.5	31.0	29.0	23.0
	51.0	24.0	21.3	21.8	26.3	24.0	24.5	35.3	35.3	35.5	30.0	24.5

TABLE 19. Colormeter Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Portland Cement Concrete Pavement (Kentucky) (continued)

COLORMETER MEASUREMENTS												
SAMPLE NUMBER	JUN 1993	JUL 1993	AUG 1993	SEPT 1993	OCT 1993	NOV 1993	DEC 1993	JAN 1994	FEB 1994	MAR 1994	APR 1994	MAY 1994
Paint-Methyl Methacrylate Polymer, Yellow (cont.)												
92-69	52.8	22.5	21.5	21.5	27.5	23.0	23.8	31.0	37.8	30.8	30.8	24.8
	50.5	23.3	21.3	20.3	27.0	21.5	22.5	34.3	34.8	34.8	31.8	27.0
92-70	50.5	22.3	21.5	18.3	24.0	18.5	19.8	25.3	31.5	29.8	25.5	20.3
	49.3	22.5	20.8	19.5	23.3	19.0	19.8	28.8	28.3	30.0	25.0	20.5
Paint-Multipolymer, White												
92-97	53.0	29.3	28.3	26.5	34.3	23.5	21.0	23.5	35.5	37.5	31.3	24.8
	54.8	30.0	27.3	24.0	32.5	23.5	21.5	29.3	31.3	33.0	28.3	22.3
Paint-Multipolymer, Yellow												
92-99	34.5	18.5	19.0	17.0	23.0	16.8	15.5	21.5	29.3	31.5	20.3	16.3
	43.3	18.3	16.3	16.5	19.5	16.0	15.0	22.3	22.5	23.3	19.8	15.5
Thermoplastic-Alkyd, White												
92-22	90.0	52.8	50.3	52.0	56.8	53.0	61.8	58.5	69.8	43.5	66.0	0.0
	86.8	52.3	48.8	46.0	48.8	47.3	46.8	57.3	64.0	63.3	59.0	49.5
92-72	71.8	54.0	58.3	52.3	60.5	53.3	59.0	65.3	76.3	75.8	62.5	61.3
	77.3	61.8	57.8	55.3	61.3	53.5	56.5	69.0	66.0	64.8	61.8	55.8
93-35	43.0	34.9	33.3	31.0	36.8	31.1	34.6	36.4	43.6	45.1	39.4	35.7
	54.1	35.1	33.5	32.9	35.6	30.9	31.9	39.1	38.4	44.6	38.3	35.3
93-41	70.8	57.8	51.8	48.0	54.3	47.5	52.0	59.8	69.8	71.3	64.8	55.5
	91.8	55.8	53.3	49.3	52.8	46.8	44.0	58.8	59.3	64.3	61.0	52.3
93-43	91.5	60.5	56.0	57.8	59.8	56.3	58.8	58.3	64.3	51.8	55.0	49.3
	92.8	62.3	56.0	57.3	60.0	56.3	56.0	64.0	61.0	62.5	56.3	49.5
93-47	102.5	63.5	56.8	56.8	62.0	54.0	57.8	59.0	72.0	69.0	64.0	51.5
	102.0	59.3	58.0	60.8	60.0	57.8	57.0	65.5	65.3	63.0	60.3	53.5
93-58	76.5	64.5	62.5	59.8	68.3	60.0	65.8	64.0	76.8	75.3	65.0	61.0
	80.0	64.0	60.8	62.5	65.8	59.8	61.5	70.8	70.3	71.3	67.5	61.3
93-69	65.0	44.0	47.3	48.3	57.5	51.8	53.3	54.3	65.0	65.0	54.0	51.5
	65.3	47.8	47.5	45.0	53.5	45.8	47.8	60.0	61.3	63.5	58.3	50.0
Thermoplastic-Alkyd, Yellow												
92-21	53.5	30.0	30.5	30.3	42.5	37.3	42.0	39.0	49.8	44.3	36.8	32.8
	47.0	30.8	30.3	30.8	35.3	30.5	34.5	33.5	40.3	43.8	38.0	34.3
92-73	45.5	39.0	37.8	39.5	46.5	40.5	41.5	40.5	49.3	50.5	40.8	35.3
	44.8	39.3	37.5	39.8	44.3	38.3	39.8	45.5	44.3	44.8	42.3	38.3

TABLE 19. Colormeter Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Portland Cement Concrete Pavement (Kentucky) (continued)

SAMPLE NUMBER	COLORMETER MEASUREMENTS											
	JUN 1993	JUL 1993	AUG 1993	SEPT 1993	OCT 1993	NOV 1993	DEC 1993	JAN 1994	FEB 1994	MAR 1994	APR 1994	MAY 1994
Thermoplastic-Alkyd, Yellow (cont.)												
93-36	65.9	55.6	50.9	47.8	51.4	49.6	49.1	58.4	69.3	66.9	64.1	57.8
	84.3	55.4	51.1	49.4	54.5	47.1	43.0	56.6	54.6	62.6	59.6	52.1
93-39	41.8	32.5	35.3	30.0	37.8	32.3	33.0	35.0	43.5	40.3	37.5	32.5
	54.5	34.8	32.5	31.8	37.3	30.3	28.0	38.3	38.0	45.8	40.5	32.5
93-40	41.3	34.5	32.5	33.0	36.5	31.0	32.0	36.0	43.8	48.5	36.3	31.5
	55.3	36.0	34.0	33.0	38.0	32.5	39.3	37.5	39.5	40.8	33.3	32.3
93-42	41.3	31.3	32.5	30.3	36.0	29.3	31.0	32.8	42.5	39.3	35.0	34.3
	53.5	35.0	34.3	34.0	39.5	32.3	30.8	40.0	37.3	38.8	37.5	31.0
93-46	57.0	33.8	32.8	32.0	35.0	33.0	34.8	36.3	46.5	39.5	36.0	26.0
	58.0	34.0	31.8	32.3	33.3	32.3	32.3	37.5	38.5	37.0	34.0	30.0
93-59	46.5	39.8	37.8	38.0	46.5	39.5	41.3	39.5	47.5	41.5	36.8	36.0
	46.5	41.3	39.0	40.0	44.8	40.0	38.8	45.0	43.8	46.0	40.3	30.0
93-68	35.3	31.0	32.0	32.3	40.3	34.0	34.5	36.5	47.0	41.8	38.8	34.5
	37.8	31.3	31.5	31.8	37.3	31.5	31.3	40.0	41.0	44.3	38.3	34.0
Thermoplastic-Hydrocarbon, White												
92-14	88.8	46.3	48.3	45.5	57.0	53.8	57.5	60.3	80.0	71.0	70.3	64.0
	85.5	40.3	42.3	35.8	50.0	36.5	43.3	56.8	61.5	74.8	67.8	52.8
92-75	74.0	55.8	56.8	56.8	65.8	61.5	64.0	55.3	72.5	75.5	70.5	60.5
	76.3	60.0	57.8	56.5	58.3	53.8	58.0	67.8	70.8	73.8	66.5	59.0
93-32	60.8	48.0	54.3	53.5	61.5	59.0	61.3	39.8	49.5	52.0	37.3	35.3
	81.0	50.3	46.0	44.8	49.8	46.8	49.5	62.0	61.5	61.3	49.8	43.5
93-44	101.0	59.0	55.3	55.5	61.5	57.8	63.5	51.5	75.5	71.5	64.3	53.8
	102.8	58.5	56.0	55.3	55.0	54.0	53.3	64.0	63.8	57.8	60.5	54.5
93-66	60.5	44.3	49.8	48.0	58.5	51.0	54.3	50.8	66.0	65.8	52.5	51.0
	63.3	45.3	50.8	47.3	51.8	45.8	46.0	59.8	59.3	63.3	57.0	51.0
Thermoplastic-Hydrocarbon, Yellow												
92-74	44.8	33.3	34.3	32.3	42.5	36.0	38.8	32.3	50.8	42.5	40.3	32.8
	43.3	35.8	35.0	31.5	39.3	33.3	35.5	40.0	42.0	42.3	38.0	35.3
92-98	51.0	26.5	29.5	27.3	38.3	28.3	28.3	30.0	47.5	44.3	44.0	39.0
	51.3	27.0	25.8	27.5	32.0	26.0	27.8	37.0	39.0	43.0	44.0	32.5
93-28	41.3	33.8	32.0	33.0	40.5	36.3	40.3	33.5	43.5	41.3	38.0	26.0
	53.0	30.8	32.5	31.5	35.3	31.3	33.3	42.0	38.5	42.8	38.3	27.0

TABLE 19. Colormeter Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Portland Cement Concrete Pavement (Kentucky) (continued)

COLORMETER MEASUREMENTS												
SAMPLE NUMBER	JUN 1993	JUL 1993	AUG 1993	SEPT 1993	OCT 1993	NOV 1993	DEC 1993	JAN 1994	FEB 1994	MAR 1994	APR 1994	MAY 1994
Thermoplastic-Hydrocarbon, Yellow (cont.)												
93-29	43.3	35.8	31.8	31.0	38.0	35.3	35.5	36.3	36.0	41.5	34.5	17.5
	55.0	36.0	34.0	35.0	36.5	33.0	33.5	41.3	38.8	46.5	39.8	30.2
93-33	41.8	32.5	34.0	33.0	42.0	37.8	41.5	29.5	37.3	31.8	26.8	23.8
	52.8	32.5	32.0	32.0	40.3	31.8	34.0	40.8	37.5	43.5	36.8	31.0
93-34	38.3	31.3	35.0	36.8	45.5	39.3	39.5	25.3	41.5	26.3	28.3	27.3
	52.3	33.3	33.0	33.3	41.5	34.0	34.0	40.8	38.8	40.3	37.5	35.0
93-45	40.3	34.8	31.8	31.0	38.0	33.0	34.8	28.5	41.8	40.5	37.0	32.5
	41.3	35.0	34.3	33.0	37.5	33.5	33.3	38.0	38.5	38.5	35.0	31.3
93-60	42.3	34.8	34.8	35.5	44.0	38.8	39.5	33.8	44.5	43.3	40.5	36.8
	40.5	38.0	35.0	35.3	41.5	35.0	38.5	41.8	43.0	42.3	40.0	36.0
93-67	45.0	33.0	34.5	35.0	44.5	37.0	38.5	34.5	46.8	45.3	41.5	33.8
	43.0	34.8	32.8	34.0	38.5	33.8	34.0	42.5	44.5	43.8	39.3	30.0
Thermoplastic-Preformed, White												
92-63	59.0	45.0	45.5	47.3	51.5	50.5	52.8	42.5	60.5	51.3	58.0	50.8
	64.3	51.8	46.3	48.3	39.5	43.3	46.8	52.0	53.8	46.8	56.0	46.3
93-37	66.0	52.0	42.8	41.3	43.5	40.3	44.3	49.0	62.5	57.3	50.3	43.8
	66.0	54.3	47.0	43.5	47.0	42.8	42.8	50.5	51.3	50.0	51.3	37.0
93-38	62.3	50.8	50.3	44.5	52.0	46.5	49.0	52.0	61.8	63.0	53.0	46.8
	65.0	57.0	53.0	52.5	51.0	50.5	50.3	52.0	53.8	51.5	48.5	40.3
93-54	70.5	49.3	48.5	47.5	33.8	50.8	51.0	52.5	63.8	67.3	58.8	50.5
	69.3	55.3	47.3	47.3	35.8	45.5	48.8	57.0	59.8	60.3	60.5	47.5
93-55	60.8	47.5	46.0	47.5	58.3	51.3	47.3	54.3	65.8	67.5	58.8	52.8
	58.8	42.5	41.3	43.5	55.5	43.3	43.5	55.8	57.3	59.8	56.5	45.8
Thermoplastic-Preformed, Yellow												
93-30	38.3	31.0	28.0	27.0	51.5	27.0	29.3	28.0	41.0	37.8	39.0	29.3
	36.5	33.0	28.8	28.5	42.5	27.3	27.0	30.8	31.5	31.8	30.5	23.0
93-31	38.3	33.8	30.0	29.8	31.8	30.0	33.0	30.8	42.0	39.3	34.8	31.0
	36.5	32.5	30.3	28.8	30.3	26.5	26.3	32.3	33.0	36.3	36.3	26.0
Permanent Tape, White												
92-1	63.3	47.0	45.3	49.0	40.3	50.0	54.8	59.8	64.3	65.3	55.5	46.5
	63.3	39.3	36.0	31.0	27.3	29.5	33.8	54.3	56.5	61.0	55.5	48.0

TABLE 19. Colormeter Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Portland Cement Concrete Pavement (Kentucky) (continued)

SAMPLE NUMBER	COLORMETER MEASUREMENTS											
	JUN 1993	JUL 1993	AUG 1993	SEPT 1993	OCT 1993	NOV 1993	DEC 1993	JAN 1994	FEB 1994	MAR 1994	APR 1994	MAY 1994
Permanent Tape, White (cont.)												
92-3	80.0	69.0	62.8	64.5	60.8	63.8	62.0	67.3	71.5	66.5	63.5	51.5
	75.5	65.5	63.8	64.0	59.0	65.8	69.8	70.8	74.5	73.5	69.3	65.5
92-86	85.0	64.0	61.0	63.3	54.5	62.3	57.3	65.8	71.5	66.0	59.0	48.8
	84.5	69.0	63.3	56.5	55.5	62.8	55.3	68.5	72.3	69.5	64.3	59.8
93-23	82.0	39.3	36.5	37.8	39.5	37.0	39.8	39.8	47.0	40.8	38.3	35.8
	81.8	39.8	39.3	39.0	38.5	40.0	38.3	41.3	48.0	44.3	40.5	38.0
93-25	146.5	67.5	61.5	66.8	69.0	69.3	66.0	69.0	73.0	69.0	68.8	56.3
	144.5	61.5	59.5	57.0	54.0	59.8	59.0	67.3	70.3	73.5	69.0	55.3
93-26	145.2	71.8	65.8	71.8	71.5	70.3	72.8	71.8	79.0	73.0	70.0	58.5
	146.2	65.3	61.8	60.0	57.0	58.8	58.5	72.3	75.8	71.5	71.0	58.8
93-49	49.8	38.8	31.3	37.8	34.8	39.8	49.3	39.3	45.0	41.5	38.8	33.5
	49.0	33.3	33.3	34.8	31.0	36.0	46.8	42.8	46.5	42.0	41.8	36.8
93-106	73.0	53.5	51.8	51.0	69.3	55.8	56.3	57.0	64.0	60.5	53.3	45.5
	73.3	52.5	51.5	48.5	65.0	50.5	52.0	57.0	59.3	62.3	55.0	48.5
93-108	91.0	81.3	77.8	82.0	56.0	85.0	72.5	79.8	88.8	81.8	75.0	66.0
	88.0	78.5	78.8	80.8	51.8	81.3	72.3	82.3	84.8	80.5	78.0	78.3
Permanent Tape, Yellow												
92-2	32.3	17.3	17.8	16.0	36.0	19.0	20.5	28.5	37.0	36.0	32.3	28.8
	32.3	18.8	17.0	15.0	30.3	15.0	15.8	25.8	26.8	28.8	23.3	16.5
92-85	47.5	24.3	24.8	27.3	37.3	28.8	34.8	36.0	42.8	38.3	35.0	27.0
	47.3	26.8	24.0	22.8	34.3	20.5	26.3	33.0	35.3	35.3	35.0	25.5
93-17	81.0	33.0	32.0	33.3	32.5	33.8	35.0	37.3	41.0	34.5	34.5	30.3
	81.5	31.3	30.3	30.5	29.5	27.8	29.5	36.3	39.0	35.8	33.3	28.3
93-24	78.5	39.0	35.8	38.3	39.5	38.3	35.0	40.3	46.8	38.3	40.3	35.3
	79.3	38.0	35.5	35.8	37.0	36.3	37.0	44.0	47.3	43.0	39.0	36.8
93-27	82.0	34.8	31.0	33.3	33.5	33.8	33.8	36.3	42.0	34.8	33.3	30.5
	83.0	31.8	32.0	28.8	30.5	30.8	31.0	37.0	40.0	36.0	33.8	28.0
93-48	83.3	66.5	66.0	69.5	65.8	71.0	74.0	62.8	75.0	70.3	65.8	60.3
	81.8	58.8	60.8	60.8	64.5	63.5	70.0	74.0	78.3	74.8	71.0	66.0
93-107	48.0	34.0	34.0	32.8	50.8	35.5	38.5	39.0	42.3	37.3	35.3	29.8
	47.5	33.8	32.5	32.8	50.8	31.3	32.3	39.3	41.3	39.5	38.0	29.5
93-109	52.5	47.5	45.0	47.8	43.3	48.5	44.3	45.8	49.0	44.0	43.5	39.0
	51.8	47.5	46.8	46.8	43.3	48.3	43.8	47.5	54.8	48.0	47.8	44.5

TABLE 19. Colormeter Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Portland Cement Concrete Pavement (Kentucky) (continued)

SAMPLE NUMBER	COLORMETER MEASUREMENTS											
	JUN 1993	JUL 1993	AUG 1993	SEPT 1993	OCT 1993	NOV 1993	DEC 1993	JAN 1994	FEB 1994	MAR 1994	APR 1994	MAY 1994
Temporary Tape, White												
92-92	79.8	48.8	47.8	47.5	49.3	49.5	48.8	55.8	65.3	54.8	50.3	42.8
	79.3	45.5	46.8	38.8	43.5	39.8	46.5	60.5	63.3	65.8	58.8	51.3
93-56	71.0	37.5	42.5	44.5	41.0	45.5	50.3	58.8	71.0	56.3	51.8	49.0
	71.5	35.0	39.8	46.5	37.5	47.3	49.5	68.5	74.5	68.5	65.3	53.3
Temporary Tape, Yellow												
92-90	49.0	27.8	27.3	27.8	32.8	29.8	32.5	39.0	45.3	38.3	34.8	30.5
	47.3	29.3	26.8	24.8	29.5	25.3	26.0	36.5	40.5	38.5	35.5	29.3
93-57	42.3	24.3	23.3	28.5	30.5	30.8	39.5	42.3	51.3	43.5	39.0	33.8
	42.0	23.3	24.0	26.8	27.3	28.0	37.3	39.5	45.0	45.0	39.8	34.5
93-64	41.8	24.8	25.8	27.3	34.5	31.5	28.0	38.0	50.5	44.5	39.3	35.5
	50.3	22.3	23.0	27.0	29.8	26.3	26.5	39.0	43.5	45.3	38.5	34.0

* Top number is left wheeltrack measurement and bottom number is centerline measurement.

TABLE 20. Colormeter Data for Removable Tape Lines on Asphalt Pavement (Kentucky)

SAMPLE NUMBER		COLORMETER MEASUREMENT						
		JUN 1993	JUL 1993	AUG 1993	SEP 1993	OCT 1993	NOV 1993	DEC 1993
Removable Tape, Yellow								
2-04	T-LW (1)	46	33	41	27	33	34	37
	T-C (2)	44	31	34	24	26	27	26
	L (3)	40	33	37	29	30	30	31
2-87	T-LW	47	38	51	38	40	37	40
	T-C	46	39	48	36	38	36	43
	L	45	37	52	36	40	37	39
2-91	T-LW	43	37	41	31	37	35	37
	T-C	43	40	44	31	38	38	38
	L	46	41	46	40	40	41	41
3-18	T-LW	53	32	39	26	28	30	32
	T-C	52	35	38	30	30	29	30
	L	52	35	38	33	33	32	33
3-19	T-LW	53	35	38	*	*	*	*
	T-C	53	34	39	*	*	*	*
	L	51	34	39	*	*	*	*
3-21	T-LW	49	41	53	43	33	32	36
	T-C	48	40	48	38	37	34	32
	L	48	39	45	39	38	33	37
3-22	T-LW	51	36	38	31	29	*	*
	T-C	50	35	32	24	24	25	*
	L	52	40	47	35	37	34	33
3-51	T-LW	39	30	42	30	35	33	36
	T-C	41	31	38	28	35	33	42
	L	41	32	36	25	31	35	40
3-53	T-LW	47	37	42	32	34	32	33
	T-C	44	38	46	35	35	37	37
	L	43	37	41	37	37	36	38
3-62	T-LW	57	31	38	34	36	36	38
	T-C	57	30	37	31	30	28	30
	L	57	34	38	30	35	33	34
3-110	T-LW	48	38	44	35	37	36	38
	T-C	48	40	40	37	35	35	36
	L	48	39	44	37	40	38	39

TABLE 20. Colormeter Data for Removable Tape Lines on Asphalt Pavement (Kentucky) (continued)

		COLORMETER MEASUREMENT						
SAMPLE NUMBER		JUN 1993	JUL 1993	AUG 1993	SEP 1993	OCT 1993	NOV 1993	DEC 1993
Removable Tape, White								
2-05	T-LW	77	61	75	37	64	61	62
	T-C	75	54	67	35	51	52	47
	L	76	54	60	30	47	47	52
2-88	T-LW	82	74	93	61	72	67	66
	T-C	78	69	102	62	63	72	73
	L	76	67	78	70	67	67	67
2-89	T-LW	82	60	62	47	50	48	46
	T-C	82	67	70	56	58	57	61
	L	82	67	72	59	61	54	58
3-16	T-LW	89	68	94	59	62	*	*
	T-C	86	68	83	60	58	56	50
	L	86	70	82	62	69	79	65
3-20	T-LW	86	68	*	*	*	*	*
	T-C	85	66	*	*	*	*	*
	L	67	64	72	62	60	56	55
3-50	T-LW	78	68	104	64	68	59	67
	T-C	76	62	79	54	66	65	68
	L	73	59	65	58	58	60	57
3-52	T-LW	77	62	64	51	55	50	54
	T-C	72	63	83	54	56	58	59
	L	70	59	65	54	62	55	60
3-63	T-LW	68	49	56	27	49	52	56
	T-C	68	46	55	45	56	50	51
	L	67	48	57	49	51	52	46

- (1) Transverse Stripe – Left Wheel Path
(2) Transverse Stripe – Centerline
(3) Longitudinal Stripe – Centerline

* Tape Missing

TABLE 21. Colormeter Data for Removable Tape Lines on Portland Cement Concrete Pavement (Kentucky)

SAMPLE NUMBER		COLORMETER MEASUREMENT						
		JUN 1993	JUL 1993	AUG 1993	SEP 1993	OCT 1993	NOV 1993	DEC 1993
Removable Tape, Yellow								
2-04	T-LW (1)	39	37	33	31	35	33	39
	T-C (2)	40	28	35	24	21	24	31
	L (3)	40	32	32	30	31	32	30
2-87	T-LW	45	35	35	37	40	35	41
	T-C	44	35	35	36	39	38	41
	L	45	34	35	34	38	34	37
2-91	T-LW	45	37	35	35	41	36	40
	T-C	44	40	37	38	39	36	40
	L	42	41	41	42	46	44	45
3-18	T-LW	79	33	32	31	34	31	36
	T-C	80	33	31	29	28	26	27
	L	82	34	32	31	36	33	34
3-19	T-LW	80	32	30	32	34	33	36
	T-C	81	35	29	28	31	30	33
	L	85	35	31	33	34	33	38
3-21	T-LW	78	39	37	38	41	40	43
	T-C	77	38	37	37	37	38	36
	L	81	39	35	37	38	38	40
3-22	T-LW	80	36	33	32	32	30	33
	T-C	77	34	28	25	26	18	25
	L	85	42	36	37	40	36	41
3-51	T-LW	41	34	32	33	35	35	38
	T-C	38	29	27	27	27	26	27
	L	41	30	30	31	34	31	38
3-53	T-LW	45	36	35	34	34	34	38
	T-C	44	35	35	35	34	33	36
	L	47	37	36	36	37	36	41
3-62	T-LW	49	32	30	32	37	34	38
	T-C	49	27	25	28	25	27	25
	L	48	30	31	32	37	32	42
3-110	T-LW	48	39	24	31	20	28	31
	T-C	48	39	37	34	36	35	37
	L	49	38	39	38	44	37	41

TABLE 21. Colormeter Data for Removable Tape Lines on Portland Cement Concrete Pavement (Kentucky) (continued)

		COLORMETER MEASUREMENT						
SAMPLE NUMBER		JUN 1993	JUL 1993	AUG 1993	SEP 1993	OCT 1993	NOV 1993	DEC 1993
Removable Tape, White								
2-05	T-LW	73	52	47	42	52	48	56
	T-C	73	44	37	39	31	30	36
	L	75	50	49	50	47	42	45
2-88	T-LW	80	67	67	68	71	68	72
	T-C	74	60	67	57	58	57	65
	L	78	62	63	60	61	65	65
2-89	T-LW	82	63	57	53	53	48	52
	T-C	83	65	61	59	62	53	59
	L	82	65	68	63	67	63	64
3-16	T-LW	143	66	66	63	67	63	70
	T-C	144	63	58	52	53	48	54
	L	151	71	69	69	70	63	78
3-20	T-LW	141	65	63	61	64	62	69
	T-C	138	61	57	55	45	53	57
	L	145	65	62	62	64	63	69
3-50	T-LW	77	63	64	66	69	66	70
	T-C	74	58	61	62	63	64	67
	L	78	59	59	57	60	59	57
3-52	T-LW	73	61	57	57	59	52	52
	T-C	70	55	57	55	60	53	55
	L	75	60	59	58	63	62	66
3-63	T-LW	65	43	38	43	50	45	36
	T-C	65	37	35	39	43	40	53
	L	64	50	55	50	60	53	63

- (1) Transverse Stripe – Left Wheel Path
(2) Transverse Stripe – Centerline
(3) Longitudinal Stripe – Centerline

* Tape Missing

TABLE 22. Removability Ratings for Removable Tape Lines on Asphalt Pavement (Kentucky)

SAMPLE NUMBER		JUL 1993	AUG 1993	SEP 1993	OCT 1993	NOV 1993	DEC 1993	AVG.
Removable Tape, Yellow								
2-04	T	8.3	9.7	10.0	9.0	8.7	10.0	9.3
	L	9.7	9.5	10.0	10.0	9.7	10.0	9.8
2-87	T	10.0	10.0	8.0	5.0	3.0	2.0	6.3
	L	10.0	10.0	10.0	10.0	9.0	9.7	9.8
2-91	T	8.3	8.0	6.0	9.3	5.0	6.0	7.1
	L	9.7	8.0	9.5	9.7	8.0	10.0	9.2
3-18	T	10.0	9.3	8.5	10.0	7.7	8.3	9.0
	L	10.0	10.0	10.0	10.0	9.7	9.7	9.9
3-19	T	10.0	10.0	9.7	10.0	10.0	9.7	9.9
	L	10.0	10.0	10.0	10.0	10.0	9.7	10.0
3-21	T	10.0	10.0	9.7	10.0	10.0	10.0	10.0
	L	10.0	10.0	10.0	10.0	10.0	10.0	10.0
3-22	T	10.0	10.0	10.0	10.0	9.7	9.7	9.9
	L	10.0	10.0	10.0	10.0	9.7	9.7	9.9
3-51	T	9.3	8.0	0.0	0.0	3.0	0.7	3.5
	L	9.3	9.0	7.7	9.3	8.7	9.0	8.8
3-53	T	8.7	10.0	9.0	4.7	2.0	0.7	5.9
	L	9.3	10.0	9.0	10.0	9.7	8.0	9.3
3-62	T	0.7	0.0	0.0	0.0	0.0	0.3	0.2
	L	9.3	9.0	6.0	7.0	8.0	8.7	8.0
3-110	T	9.7	10.0	9.0	6.7	3.0	2.0	6.7
	L	10.0	10.0	10.0	8.3	9.7	6.7	9.1
Removable Tape, White								
2-05	T	5.7	8.0	8.0	8.0	8.7	6.3	7.5
	L	10.0	10.0	10.0	10.0	9.7	10.0	10.0
2-88	T	10.0	7.0	0.0	8.0	7.0	0.0	5.3
	L	10.0	10.0	10.0	10.0	8.3	10.0	9.7

TABLE 22. Removability Ratings for Removable Tape Lines on Asphalt Pavement (Kentucky) (continued)

SAMPLE NUMBER		JUL 1993	AUG 1993	SEP 1993	OCT 1993	NOV 1993	DEC 1993	AVG.
2-89	T	9.3	9.0	9.0	7.0	8.0	7.3	8.3
	L	10.0	10.0	10.0	8.0	8.0	10.0	9.3
3-16	T	9.7	10.0	9.3	10.0	9.7	9.7	9.7
	L	10.0	10.0	10.0	10.0	9.7	9.7	9.9
3-20	T	10.0	0.0	*	10.0	9.7	10.0	6.6
	L	10.0	10.0	10.0	10.0	9.7	10.0	10.0
3-50	T	9.3	9.0	7.0	5.0	3.0	7.0	6.7
	L	10.0	10.0	7.5	8.0	7.0	10.0	8.8
3-52	T	8.7	7.0	0.0	0.6	2.0	3.3	3.6
	L	9.3	9.0	9.0	7.0	7.0	5.0	7.7
3-63	T	0.7	0.0	0.0	0.0	0.0	0.7	0.2
	L	10.0	7.0	7.0	10.0	7.7	7.0	8.1

Removable Tape, Black

3-111	T	9.7	7.0	8.0	2.0	5.7	2.0	5.7
	L	10.0	9.0	9.0	8.0	6.0	4.0	7.7

T Transverse Stripe
L Longitudinal Stripe

* Tape Missing

Table 23. Removability Ratings for Removable Tape Lines on Portland Cement Concrete Pavement (Kentucky)

SAMPLE NUMBER		JUL 1993	AUG 1993	SEP 1993	OCT 1993	NOV 1993	DEC 1993	AVG.
Removable Tape, Yellow								
2-04	T	8.0	7.0	5.0	4.7	2.0	0.0	4.5
	L	10.0	10.0	10.0	10.0	9.5	9.5	9.8
2-87	T	10.0	6.0	9.0	8.0	4.0	9.5	7.8
	L	10.0	10.0	10.0	10.0	9.5	10.0	9.9
2-91	T	10.0	9.0	10.0	8.0	7.0	10.0	9.0
	L	9.5	10.0	8.0	10.0	9.0	10.0	9.4
3-18	T	5.0	4.0	10.0	9.7	8.7	10.0	7.9
	L	10.0	10.0	10.0	10.0	9.3	10.0	9.9
3-19	T	10.0	8.7	10.0	10.0	9.7	10.0	9.7
	L	10.0	10.0	10.0	10.0	10.0	10.0	10.0
3-21	T	9.0	10.0	10.0	10.0	9.7	10.0	9.8
	L	10.0	10.0	10.0	10.0	9.7	10.0	10.0
3-22	T	10.0	10.0	10.0	10.0	9.7	7.5	9.5
	L	10.0	10.0	10.0	10.0	9.7	10.0	10.0
3-51	T	10.0	9.7	6.0	3.0	3.0	1.5	5.5
	L	10.0	9.7	10.0	10.0	7.0	6.0	8.8
3-53	T	10.0	10.0	8.0	8.0	9.0	2.0	7.8
	L	10.0	10.0	10.0	10.0	10.0	9.5	9.9
3-62	T	2.0	0.7	0.0	0.0	0.0	0.0	0.5
	L	9.0	6.0	6.0	7.7	0.0	0.0	4.8
3-110	T	10.0	9.3	8.0	10.0	7.5	8.5	8.9
	L	10.0	10.0	10.0	10.0	10.0	9.5	9.9
Removable Tape, White								
2-05	T	4.0	8.0	10.0	4.0	9.0	9.5	7.4
	L	10.0	9.0	7.0	10.0	9.0	9.5	9.1
2-88	T	10.0	9.0	6.0	8.0	3.0	0.5	6.1
	L	10.0	9.7	10.0	10.0	9.5	9.0	9.7
2-89	T	10.0	10.0	9.0	9.3	2.0	0.5	6.8
	L	10.0	10.0	9.0	10.0	10.0	9.5	9.8

Table 23. Removability Ratings for Removable Tape Lines on Portland Cement Concrete Pavement (Kentucky)

SAMPLE NUMBER		JUL 1993	AUG 1993	SEP 1993	OCT 1993	NOV 1993	DEC 1993	AVG.
3-16	T	10.0	7.3	9.0	9.0	9.5	10.0	9.1
	L	10.0	10.0	10.0	10.0	9.5	10.0	9.9
3-20	T	10.0	10.0	9.0	9.3	9.7	9.5	9.6
	L	10.0	10.0	10.0	10.0	9.7	10.0	10.0
3-50	T	10.0	10.0	9.0	8.0	3.0	4.5	7.4
	L	10.0	9.7	10.0	10.0	9.0	8.5	9.5
3-52	T	10.0	9.0	7.0	4.7	3.0	2.0	6.0
	L	10.0	10.0	10.0	10.0	6.5	9.5	9.3
3-63	T	0.5	0.0	0.0	0.0	0.0	0.0	0.1
	L	0.5	6.3	0.0	8.0	0.0	0.0	2.5
Removable Tape, Black								
3-111	T	10.0	10.0	10.0	8.0	2.5	5.5	7.7
	L	10.0	10.0	10.0	10.0	9.0	10.0	9.8

T Transverse Stripe
L Longitudinal Stripe

* Tape Missing

TABLE 24. Discernability Ratings for Removable Tape Lines on Asphalt Pavement (Kentucky)

SAMPLE NUMBER		Months After Removal									
		1	2	3	4	5	6	7	8	9	10
Removable Tape, Yellow											
92-04	T	9.4	9.3	9.4	9.5	9.4	9.5	9.3	9.8	10.0	10.0
	L	9.5	9.5	9.5	9.7	9.6	9.7	9.8	10.0	10.0	10.0
92-87	T	8.2	9.0	8.9	8.8	9.3	9.4	9.5	9.8	10.0	10.0
	L	8.8	9.2	9.1	9.4	9.8	9.9	9.9	10.0	10.0	10.0
92-91	T	7.0	7.9	8.1	8.2	8.9	9.3	9.4	9.7	10.0	10.0
	L	7.5	8.5	8.7	9.1	9.4	9.5	9.7	10.0	10.0	10.0
93-18	T	9.5	9.8	9.8	10.0	10.0	10.0	10.0	10.0	10.0	10.0
	L	9.7	9.8	9.8	10.0	9.9	10.0	10.0	10.0	10.0	10.0
93-19	T	9.5	9.6	9.6	9.8	9.9	10.0	10.0	10.0	10.0	10.0
	L	9.2	9.4	9.5	9.8	9.8	10.0	10.0	10.0	10.0	10.0
93-21	T	9.7	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
	L	9.6	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
93-22	T	9.3	9.6	9.7	9.5	9.7	9.7	10.0	10.0	10.0	10.0
	L	9.1	9.8	9.7	9.8	9.9	10.0	10.0	10.0	10.0	10.0
93-51	T	8.4	8.9	9.1	9.5	9.5	9.8	10.0	10.0	10.0	10.0
	L	8.8	9.4	9.2	9.7	9.9	10.0	10.0	10.0	10.0	10.0
93-53	T	8.1	8.7	8.9	9.3	9.6	9.5	9.7	9.9	10.0	10.0
	L	8.8	9.6	9.4	9.7	9.9	10.0	10.0	10.0	10.0	10.0
93-62	T	9.5	9.7	9.7	9.7	9.6	9.7	9.8	10.0	10.0	10.0
	L	9.5	9.9	9.8	9.6	9.6	9.5	9.8	10.0	10.0	10.0
93-110	T	8.6	9.3	9.2	9.5	9.4	9.5	9.7	10.0	10.0	10.0
	L	9.3	9.7	9.6	9.8	9.9	10.0	9.8	10.0	10.0	10.0
Removable Tape, White											
92-05	T	9.4	9.3	9.5	9.6	9.6	9.6	9.6	10.0	10.0	10.0
	L	9.4	9.4	9.7	9.6	9.8	9.8	10.0	10.0	10.0	10.0
92-88	T	8.9	9.3	9.3	9.4	9.5	9.4	9.7	9.8	10.0	10.0
	L	9.0	9.5	9.5	9.8	9.9	10.0	10.0	10.0	10.0	10.0
92-89	T	7.7	8.1	8.3	8.4	8.8	9.0	9.4	10.0	10.0	10.0
	L	8.1	8.6	9.0	9.3	9.5	9.7	10.0	10.0	10.0	10.0

TABLE 24. Discernability Ratings for Removable Tape Lines on Asphalt Pavement (Kentucky) (continued)

SAMPLE NUMBER		Months After Removal									
		1	2	3	4	5	6	7	8	9	10
93-16	T	9.5	9.7	9.8	10.0	10.0	10.0	10.0	10.0	10.0	10.0
	L	9.5	9.8	9.8	9.9	10.0	10.0	10.0	10.0	10.0	10.0
93-20	T	9.6	9.7	9.8	9.9	10.0	10.0	10.0	10.0	10.0	10.0
	L	9.3	9.7	9.8	10.0	10.0	10.0	10.0	10.0	10.0	10.0
93-50	T	9.3	9.7	9.6	9.4	9.5	9.7	9.8	10.0	10.0	10.0
	L	9.2	9.7	9.6	9.9	9.9	10.0	10.0	10.0	10.0	10.0
93-52	T	8.6	9.0	9.4	9.8	9.7	10.0	10.0	10.0	10.0	10.0
	L	8.9	9.6	9.5	9.8	9.9	10.0	10.0	10.0	10.0	10.0
93-63	T	9.6	9.7	9.6	9.7	9.5	9.3	9.2	9.1	9.2	9.3
	L	9.5	9.9	9.8	9.6	9.6	9.7	9.6	10.0	10.0	10.0
Removable Tape, Black											
93-111	T	8.9	8.8	9.0	9.1	9.2	9.1	9.4	9.4	10.0	10.0
	L	9.3	9.5	9.5	9.5	9.5	9.5	9.9	9.8	9.7	9.3

T Transverse Stripe
L Longitudinal Stripe

TABLE 25. Discernability Ratings for Removable Tape Lines on Portland Cement Concrete Pavement (Kentucky)

SAMPLE NUMBER		Months After Removal									
		1	2	3	4	5	6	7	8	9	10
Removable Tape, Yellow											
92-04	T	9.1	9.4	9.5	9.6	9.6	9.6	9.8	9.9	10.0	10.0
	L	9.0	9.7	9.8	9.9	10.0	9.9	9.9	10.0	10.0	10.0
92-87	T	7.7	8.2	8.6	8.6	8.8	8.4	8.7	8.8	8.8	8.7
	L	8.3	8.6	8.8	8.8	8.9	8.9	9.1	9.0	9.7	9.3
92-91	T	7.2	8.0	8.1	8.8	9.1	9.3	9.2	9.4	9.5	10.0
	L	8.3	8.8	9.1	9.2	9.5	9.4	9.5	10.0	10.0	10.0
93-18	T	9.2	9.3	9.4	9.6	9.8	9.9	9.9	10.0	10.0	10.0
	L	9.8	9.9	9.8	9.9	9.8	9.9	9.9	10.0	10.0	10.0
93-19	T	8.1	8.3	8.6	8.4	8.8	9.0	9.4	9.3	9.3	10.0
	L	8.7	8.8	9.0	8.7	8.7	8.9	9.4	9.6	9.7	9.3
93-21	T	9.3	9.6	9.7	9.8	9.9	10.0	10.0	10.0	10.0	10.0
	L	9.3	9.7	9.8	9.9	9.9	9.9	10.0	10.0	10.0	10.0
93-22	T	8.9	9.2	9.3	9.5	9.5	9.5	9.5	9.4	9.8	10.0
	L	8.7	9.0	9.3	9.4	9.5	9.6	9.4	9.3	9.2	10.0
93-51	T	8.2	8.0	8.2	8.7	9.0	9.1	9.2	9.3	10.0	10.0
	L	9.3	9.4	9.6	9.6	9.7	10.0	10.0	10.0	10.0	10.0
93-53	T	7.8	7.8	8.0	8.2	8.6	8.6	8.8	9.0	9.3	9.7
	L	9.1	8.9	9.2	9.0	9.3	9.3	9.3	9.2	9.5	10.0
93-62	T	9.2	9.1	9.2	9.0	9.3	9.2	9.3	9.3	9.5	10.0
	L	9.1	9.2	9.2	9.3	9.3	9.2	9.3	9.6	10.0	10.0
93-110	T	8.1	8.7	9.0	9.3	9.5	9.6	9.8	10.0	10.0	10.0
	L	9.3	9.5	9.6	9.9	9.9	9.9	9.9	10.0	10.0	10.0
Removable Tape, White											
92-05	T	8.9	9.2	9.4	9.3	9.4	9.4	9.8	10.0	10.0	10.0
	L	9.3	9.5	9.8	9.9	9.9	9.8	9.7	10.0	10.0	10.0
92-88	T	7.8	7.9	8.1	8.5	8.6	8.4	8.8	9.2	9.7	9.3
	L	8.3	8.3	8.5	8.7	8.8	9.0	8.9	8.9	9.2	9.3
92-89	T	7.8	8.5	8.7	9.0	9.3	9.3	9.4	9.6	10.0	10.0
	L	8.6	9.4	9.5	9.3	9.7	9.9	9.9	10.0	10.0	10.0

TABLE 25. Discernability Ratings for Removable Tape Lines on Portland Cement Concrete Pavement (Kentucky) (continued)

SAMPLE NUMBER		Months After Removal									
		1	2	3	4	5	6	7	8	9	10
93-16	T	9.1	9.4	9.6	9.6	9.8	10.0	10.0	10.0	10.0	10.0
	L	9.4	9.8	9.8	10.0	10.0	10.0	10.0	10.0	10.0	10.0
93-20	T	8.6	8.9	8.7	8.7	9.0	9.1	9.2	9.2	10.0	10.0
	L	8.6	8.6	9.0	8.9	9.1	9.0	9.1	9.2	10.0	10.0
93-50	T	7.5	8.1	8.4	8.5	8.8	8.9	9.2	9.3	10.0	10.0
	L	9.6	9.7	9.7	9.6	9.7	9.8	9.9	10.0	10.0	10.0
93-52	T	7.3	7.8	7.9	8.4	8.6	8.8	8.8	8.9	9.8	10.0
	L	8.6	8.9	9.1	9.1	9.3	9.5	9.8	10.0	10.0	10.0
93-63	T	8.9	8.9	9.1	9.0	8.8	8.6	9.0	9.0	9.3	9.7
	L	9.0	9.0	9.1	9.1	9.3	9.2	9.2	9.7	10.0	10.0
Removable Tape, Black											
93-111	T	8.6	8.8	9.1	9.2	9.4	9.5	9.8	9.9	10.0	10.0
	L	8.5	9.7	9.7	9.9	9.9	9.9	10.0	10.0	10.0	10.0

T Transverse Stripe
L Longitudinal Stripe

APPENDIX

TWO-YEAR SUMMARY OF DATA FOR 1991 TEST DECKS

TABLE A1. LONG LIFE STRIPING MATERIALS TESTED (RTF 92) (ALABAMA)

COMPANY	SAMPLE NUMBER	TYPE*
Linear Dynamics	STR-91-1	Prismo Plastix Series A Yellow Tape P
	STR-91-2	Prismo Plastix Series A White Tape P
AExcel	STR-91-11	75W-D014 White Polyester Paint LF**
Cataphote	STR-91-15	White Paint LF-MMP FD
Intermak	STR-91-16	Intermak 2000 Yellow Thermoplastic H**
	STR-91-17	Intermak 2000 White Thermoplastic H**
Flint trading	STR-91-26	White Preformed Thermoplastic H (R 30S)
	STR-91-27	White Preformed Thermoplastic H (R 30N)
Linear Dynamics	STR-91-28	LW-91-1-TW White Thermoplastic H
	STR-91-29	LW-91-1-TY Yellow Thermoplastic H
3M	STR-91-76	Stamark Intersection Grade White Tape P
	STR-91-77	Stamark A420 White Tape P**
	STR-91-78	Stamark N420 White Tape P**
Pave-Mark	STR-91-79	Y2E-4BX-79 Yellow Thermoplastic H
	STR-91-80	Y2D-5BX-AL Yellow Thermoplastic A
	STR-91-81	W4D-5BX-AL White Thermoplastic A
	STR-91-82	W5E-5BX-PM White Thermoplastic A
	STR-91-83	Y2E-5BX-PM Yellow Thermoplastic A
	STR-91-84	W5E-4BX-AL White Thermoplastic H
	STR-91-85	W4E-7TX-90 Yellow Preformed Thermoplastic
	STR-91-86	Y2E-7TX-90 White Preformed Thermoplastic

*	L	Leaded
	LF	Lead Free
	A	Alkyd
	ALP	Acrylic Latex Polymer (Water Based)
	FD	Fast Dry (Number in parenthesis gives times, in seconds, for no-track test)
	H	Hydrocarbon
	P	Permanent
	R	Removable
	PM	Polymethyl methacrylate
	T	Temporary Marking Tape
	MMP	Methy Methacrylite Polymer

** Not applied in Alabama in 1992

TABLE A1. LONG LIFE STRIPING MATERIALS TESTED (RTF 92) (ALABAMA)

COMPANY	SAMPLE NUMBER	TYPE*
Advance Traffic Markings	STR-92-1	ATM-400 White Extended Life Tape P
	STR-92-2	ATM-300 Yellow Durable Tape P
	STR-92-3	ATM-300 White Durable Tape P
Baltimore Paint	STR-92-6	BP-6822 White Polyester Paint
	STR-92-7	BP-6823 Yellow Polyester Paint
	STR-92-8	BP-6824 White Polyester Paint
	STR-92-9	BP-6825 Yellow Polyester Paint
	STR-92-10	BP-6826 White Polyester Paint
	STR-92-11	BP-6827 Yellow Polyester Paint
Cataphote, Inc.	STR-92-14	Thermo-Quick 701 White Thermoplastic H
	STR-92-98	Thermo-Quick 701 Yellow Thermoplastic H
Linear Dynamics	STR-92-16	Plastix Series A-330 White Tape P
	STR-92-21	LW-9201AY Yellow Thermoplastic A
	STR-92-22	LW-9201AW White Thermoplastic A
3M	STR-92-32	A420 Stamark Tape P
AExcel Corporation	STR-92-36	75W-D014 White Polyester Paint LF
	STR-92-37	75W-D018 Yellow Polyester Paint L
	STR-92-38	75Y-D016 Yellow Polyester Paint LF
Flint Trading	STR-92-63	Premark R30PB White Preformed Thermoplastic H
Morton International	STR-92-66	White Paint Dura-St Type IV LF-MMP
	STR-92-67	Yellow Paint Dura-St Type IV L-MMP
	STR-92-68	White Paint Dura-St Type I LF-MMP
	STR-92-69	Yellow Paint Dura-St Type II L-MMP
	STR-92-70	Yellow Paint Dura-St Type V L-MMP
	STR-92-71	White Paint Dura-St Type V LF-MMP
Swarco Industries	STR-92-72	White Thermoplastic A
	STR-92-73	Yellow Thermoplastic A
	STR-92-74	Yellow Thermoplastic H
	STR-92-75	White Thermoplastic H
Intermak Corporation	STR-92-76	Interplast 2000 White Thermoplastic H
	STR-92-77	Intermark 5000/4000 Epoxy Paint Yellow
Swarco/Volare Ltd.	STR-92-85	Director Yellow Tape P
	STR-92-86	Director White Tape P
P.B. Laminations, Inc.	STR-92-90	Aztec Yellow Tape T
	STR-92-92	Aztec White Tape T

TABLE A1. LONG LIFE STRIPING MATERIALS TESTED (RTF 92) (ALABAMA)

COMPANY	SAMPLE NUMBER	TYPE*
Poly-Carb, Inc.	STR-92-97 STR-92-99	Mark 55.7 Multipolymer System White Mark 55.7 Multipolymer System Yellow

*	L	Leaded
	LF	Lead Free
	A	Alkyd
	ALP	Acrylic Latex Polymer (Water Based)
	FD	Fast Dry (Number in parenthesis gives times, in seconds, for no-track test)
	H	Hydrocarbon
	P	Permanent
	R	Removable
	PM	Polymethyl methacrylate
	T	Temporary Marking Tape
	MMP	Methy Methacrylite Polymer

TABLE A2. Reflectivity Data for Long Life Striping Materials (RTF 92) (Alabama)

SAMPLE NUMBER	REFLECTIVITY MEASUREMENT*					
	September 93 ASPHALT	PCC	December 93 ASPHALT	PCC	April 94 ASPHALT	PCC
Paint - Polyester, White						
92-06**	140	186	170	78	159	80
	203	279	293	146	272	146
92-08	175	209	164	8	152	5
	227	203	230	124	218	122
92-10	149	229	146	20	129	17
	242	236	188	127	179	118
92-36	48	109	53	26	45	26
	89	164	61	54	46	52
Paint - Polyester, Yellow						
92-07	114	108	129	36	111	30
	203	161	200	71	194	75
92-09	98	131	120	5	104	6
	167	147	139	31	136	28
92-11	70	81	103	2	81	2
	122	96	131	39	123	33
92-37	38	51	76	19	52	16
	71	43	106	13	89	12
92-38	8	21	32	28	24	28
	34	23	47	27	49	26
Paint - Methy Methacrylite Polymer, White						
91-15	***	23	***	39	***	41
		150		107		97
92-66	64	97	104	86	90	85
	111	74	125	84	119	76
92-68	58	69	100	76	92	72
	113	150	118	122	110	118
92-71	90	87	118	90	110	89
	169	186	183	172	161	166

TABLE A2. Reflectivity Data for Long Life Striping Materials (RTF 92) (Alabama)

SAMPLE NUMBER	REFLECTIVITY MEASUREMENT*					
	September 93 ASPHALT	PCC	December 93 ASPHALT	PCC	April 94 ASPHALT	PCC
Paint - Methy Methacrylite Polymer, Yellow						
92-67	61	68	99	75	92	72
	126	132	138	127	133	129
92-69	67	56	109	64	98	72
	166	217	177	206	155	209
92-70	57	38	90	49	76	45
	111	93	135	71	128	70
Thermoplastic - Alkyd, White						
91-81	122	150	80	122	70	125
	243	275	122	207	95	186
91-82	177	270	106	183	99	164
	285	391	167	267	152	252
92-22	114	132	80	134	71	132
	215	171	110	147	98	141
92-72	169	192	120	154	114	151
	279	304	147	264	136	252
Thermoplastic - Alkyd, Yellow						
91-80	67	73	41	74	35	77
	82	121	49	72	47	94
91-83	110	184	65	127	69	116
	178	306	128	224	117	192
92-21	58	76	37	78	34	79
	85	92	60	91	57	90
92-73	86	94	51	80	47	79
	92	99	77	94	66	87
Thermoplastic - Hydrocarbon, White						
91-28	126	118	78	127	70	130
	160	152	100	140	88	136

TABLE A2. Reflectivity Data for Long Life Striping Materials (RTF 92) (Alabama)

SAMPLE NUMBER	REFLECTIVITY MEASUREMENT*					
	September 93 ASPHALT	PCC	December 93 ASPHALT	PCC	April 94 ASPHALT	PCC
Thermoplastic - Hydrocarbon, White (cont'd)						
91-84	133	144	84	136	83	125
	230	173	143	136	119	128
92-14	30	110	22	100	22	101
	87	233	50	198	51	177
92-75	132	129	95	116	89	108
	163	173	144	144	141	142
92-76	175	164	124	155	108	153
	307	253	216	232	199	213
Thermoplastic - Hydrocarbon, Yellow						
91-29	70	84	40	82	36	87
	118	95	70	89	60	87
91-79	60	74	40	79	35	86
	82	74	47	75	41	82
92-74	56	64	46	67	42	66
	94	109	74	74	70	77
92-98	41	63	27	61	25	57
	69	123	36	97	31	90
Thermoplastic - Preformed, White						
91-26	106	131	83	140	75	142
	195	198	143	198	137	193
91-27	86	170	78	120	69	117
	175	161	146	131	131	125
91-86	96	105	114	98	112	93
	219	234	113	130	108	124
92-63	127	143	102	156	96	153
	226	281	125	198	117	158

TABLE A2. Reflectivity Data for Long Life Striping Materials (RTF 92) (Alabama)

SAMPLE NUMBER	REFLECTIVITY MEASUREMENT*					
	September 93 ASPHALT	PCC	December 93 ASPHALT	PCC	April 94 ASPHALT	PCC
Thermoplastic - Preformed, Yellow						
91-85	48	48	64	54	60	57
	76	111	61	77	56	75
Epoxy - White						
92-97	105	121	72	122	72	126
	195	187	146	206	138	202
Epoxy - Yellow						
92-77	76	105	59	92	56	95
	147	169	99	158	89	154
92-99	66	52	51	60	50	67
	148	136	115	129	106	127
Permanent Tape - White						
91-02	49	28	52	44	50	44
	222	194	177	151	167	143
91-76	95	86	82	80	79	82
	255	162	219	148	199	143
92-01	45	48	72	56	65	58
	237	153	158	126	149	122
92-03	37	36	59	53	54	49
	105	121	112	93	99	85
92-16	96	33	95	56	78	60
	266	148	198	132	190	126
92-32	88	70	78	75	73	75
	212	126	177	130	163	129
92-86	92	79	76	85	71	78
	246	191	220	176	197	170
Permanent Tape - Yellow						
91-01	15	18	27	28	24	27
	91	65	58	64	56	63

TABLE A2. Reflectivity Data for Long Life Striping Materials (RTF 92) (Alabama)

SAMPLE NUMBER	REFLECTIVITY MEASUREMENT*					
	September 93 ASPHALT	PCC	December 93 ASPHALT	PCC	April 94 ASPHALT	PCC
Permanent Tape - Yellow (cont'd)						
92-02	29	22	51	43	47	47
	139	132	99	100	91	102
92-85	42	27	46	38	46	37
	215	153	173	146	175	140
Temporary Tape - White						
92-92	18	42	33	30	38	28
	60	79	53	68	52	66
Temporary Tape - Yellow						
92-90	33	9	55	29	52	26
	193	165	106	90	102	87

* Millicandelas per square foot per footcandle

** Top number is left wheel track measurement and bottom number is centerline measurement

*** Product overlooked on asphalt test deck

TABLE A3. Durability Data for Long Life Striping Materials (RTF 92)(Alabama)

SAMPLE NUMBER	SUBJECTIVE RATING					
	September 93 ASPHALT	PCC	December 93 ASPHALT	PCC	April 94 ASPHALT	PCC
Paint - Polyester, White						
92-06	6.5	7.4	5.7	6.8	7.2	7.6
92-08	6.2	2.7	4.5	1.6	6.7	1.2
92-10	6.3	2.1	5.0	0.9	6.7	0.6
92-36	3.0	4.6	1.8	1.9	2.8	4.9
Paint - Polyester, Yellow						
92-07	7.0	7.0	6.3	6.2	6.8	7.2
92-09	5.0	0.8	4.3	0.0	6.7	0.0
92-11	5.0	0.9	4.7	0.1	6.3	0.3
92-37	1.8	1.5	1.2	1.0	2.0	2.1
92-38	1.0	2.5	0.7	1.4	1.3	2.3
Paint - Methy Methacrylite Polymer, White						
91-15	*	3.0	*	2.4	*	1.8
92-66	9.8	10.0	9.2	10.0	9.3	10.0
92-68	10.0	9.8	9.6	9.7	9.8	10.0
92-71	8.9	9.6	8.6	10.0	8.0	9.9
Paint - Methy Methacrylite Polymer, Yellow						
92-67	9.8	9.8	9.6	9.9	9.8	9.8
92-69	10.0	10.0	9.6	10.0	10.0	10.0
92-70	9.0	9.9	9.1	10.0	8.5	9.7
Thermoplastic - Alkyd, White						
91-81	9.5	8.5	9.1	9.3	9.7	9.1
91-82	9.6	8.3	8.8	8.9	9.3	9.0

TABLE A3. Durability Data for Long Life Striping Materials (RTF 92)(Alabama)

SAMPLE NUMBER	SUBJECTIVE RATING					
	September 93 ASPHALT	PCC	December 93 ASPHALT	PCC	April 94 ASPHALT	PCC
Thermoplastic - Alkyd, White (cont'd)						
92-22	9.3	8.1	9.0	8.5	9.4	8.4
92-72	9.5	9.2	9.3	9.8	9.8	9.3
Thermoplastic - Alkyd, Yellow						
91-80	9.6	8.8	8.9	9.4	9.6	9.1
91-83	9.7	8.2	8.6	8.3	8.8	8.6
92-21	9.7	8.6	9.1	8.9	9.8	9.2
92-73	9.5	9.5	8.7	9.9	9.6	9.7
Thermoplastic - Hydrocarbon, White						
91-28	8.5	9.8	8.3	9.8	8.6	9.7
91-84	9.5	8.9	9.0	9.3	9.6	9.2
92-14	5.6	9.8	4.3	9.4	4.7	9.7
92-75	9.5	8.8	9.0	8.8	9.3	8.6
92-76	9.4	8.8	9.0	9.6	9.8	9.3
Thermoplastic - Hydrocarbon, Yellow						
91-29	9.2	9.3	8.9	9.5	9.4	9.3
91-79	9.7	9.0	9.1	9.3	10.0	9.3
92-74	8.3	8.7	8.2	8.9	8.0	9.0
92-98	9.1	6.0	8.0	6.2	8.4	6.9
Thermoplastic - Preformed, White						
91-26	9.8	8.6	9.5	9.0	9.8	9.2
91-27	9.0	8.9	8.8	9.5	8.9	9.3

TABLE A3. Durability Data for Long Life Striping Materials (RTF 92)(Alabama)

SAMPLE NUMBER	SUBJECTIVE RATING					
	September 93 ASPHALT	PCC	December 93 ASPHALT	PCC	April 94 ASPHALT	PCC
Thermoplastic - Preformed, White (cont'd)						
91-86	10.0	9.6	9.3	9.7	10.0	9.8
92-63	9.3	9.5	8.5	9.9	9.0	9.7
Thermoplastic - Preformed, Yellow						
91-85	10.0	9.6	9.7	9.7	9.8	9.6
Epoxy - White						
92-97	9.3	9.3	8.6	9.5	8.8	9.3
Epoxy - Yellow						
92-77	9.2	9.1	9.0	9.5	9.4	9.3
92-99	8.8	9.3	8.3	8.8	8.7	9.5
Permanent Tape - White						
91-02	6.7	9.6	5.7	9.5	6.3	9.3
91-76	9.5	9.5	9.3	10.0	9.3	9.3
92-01	10.0	9.5	9.5	10.0	10.0	9.9
92-03	9.7	9.2	9.3	9.1	10.0	9.2
92-16	6.9	9.8	4.8	9.8	5.0	9.7
92-32	9.7	9.8	9.7	9.9	9.6	9.7
92-86	9.7	9.7	8.9	9.7	10.0	10.0
Permanent Tape - Yellow						
91-01	9.8	8.8	9.0	8.8	10.0	8.8
92-02	9.2	9.6	9.5	9.8	9.3	9.8
92-85	10.0	9.8	9.2	9.9	10.0	10.0

TABLE A3. Durability Data for Long Life Striping Materials (RTF 92)(Alabama)

SAMPLE NUMBER	SUBJECTIVE RATING					
	September 93 ASPHALT	PCC	December 93 ASPHALT	PCC	April 94 ASPHALT	PCC
Temporary Tape - White						
92-92	6.5	7.7	6.1	7.0	6.4	6.6
Temporary Tape - Yellow						
92-90	6.9	6.4	6.0	6.4	6.7	5.8

* Product overlooked on asphalt test deck

TABLE A4. Appearance Data for Long Life Striping Materials (RTF 92)(Alabama)

SAMPLE NUMBER	SUBJECTIVE RATING					
	September 93 ASPHALT	PCC	December 93 ASPHALT	PCC	April 94 ASPHALT	PCC
Paint - Polyester, White						
92-06	7.3	7.8	5.3	6.3	7.8	7.5
92-08	7.3	5.8	7.2	3.1	7.7	5.4
92-10	7.8	4.8	6.8	2.7	7.8	4.0
92-36	4.1	4.8	7.4	2.3	4.3	4.7
Paint - Polyester, Yellow						
92-07	7.5	8.0	5.3	6.8	8.2	7.5
92-09	7.2	4.0	6.4	1.8	7.5	3.3
92-11	7.8	4.3	6.8	2.1	8.2	3.3
92-37	4.9	2.3	2.7	1.5	5.8	3.0
92-38	4.3	3.3	3.8	1.8	4.5	3.2
Paint - Methy Methacrylite Polymer, White						
91-15	*	4.9	*	4.0	*	3.5
92-66	9.5	9.3	8.6	9.0	8.8	9.3
92-68	9.7	9.3	9.3	8.8	9.0	9.3
92-71	8.7	9.0	7.7	9.0	8.0	9.3
Paint - Methy Methacrylite Polymer, Yellow						
92-67	9.5	9.6	8.9	9.0	9.0	9.3
92-69	9.7	9.7	9.0	9.0	9.0	9.3
92-70	9.0	9.7	8.6	9.0	8.3	9.3
Thermoplastic - Alkyd, White						
91-81	9.0	8.3	8.5	8.6	9.3	9.0
91-82	8.3	7.0	7.5	7.2	8.5	8.1

TABLE A4. Appearance Data for Long Life Striping Materials (RTF 92)(Alabama)

SAMPLE NUMBER	SUBJECTIVE RATING					
	September 93 ASPHALT	PCC	December 93 ASPHALT	PCC	April 94 ASPHALT	PCC
Thermoplastic - Alkyd, White (cont'd)						
92-22	8.8	7.6	8.4	7.6	9.0	8.4
92-72	8.9	9.2	8.5	9.0	9.2	9.3
Thermoplastic - Alkyd, Yellow						
91-80	9.0	8.1	9.1	8.3	9.2	8.9
91-83	8.3	6.8	8.1	7.2	8.5	8.0
92-21	8.8	8.3	8.7	8.4	9.3	9.0
92-73	9.0	9.3	8.3	9.2	9.2	9.3
Thermoplastic - Hydrocarbon, White						
91-28	8.4	9.3	8.2	9.3	8.4	9.8
91-84	9.3	8.6	9.1	8.8	9.8	9.1
92-14	6.3	9.3	3.8	8.8	5.3	9.3
92-75	9.3	8.4	8.5	8.4	9.1	8.7
92-76	9.1	8.7	9.0	9.6	9.1	9.3
Thermoplastic - Hydrocarbon, Yellow						
91-29	9.0	9.0	8.6	8.8	9.2	9.3
91-79	9.3	8.8	9.3	9.3	9.7	9.7
92-74	8.1	8.9	7.4	8.9	8.2	9.1
92-98	8.9	6.3	8.0	5.3	8.7	7.1
Thermoplastic - Preformed, White						
91-26	9.3	8.6	8.9	8.8	9.5	9.3
91-27	8.8	8.8	8.1	8.5	8.9	9.3
91-86	9.0	9.3	9.1	8.8	9.7	9.2

TABLE A4. Appearance Data for Long Life Striping Materials (RTF 92)(Alabama)

SAMPLE NUMBER	SUBJECTIVE RATING					
	September 93 ASPHALT	PCC	December 93 ASPHALT	PCC	April 94 ASPHALT	PCC
Thermoplastic - Preformed, White (cont'd)						
92-63	9.1	9.2	7.8	9.3	8.9	9.3
Thermoplastic - Preformed, Yellow						
91-85	10.0	9.2	9.3	9.6	9.8	9.3
Epoxy - White						
92-97	8.8	8.2	7.2	7.5	8.4	8.7
Epoxy - Yellow						
92-77	9.1	8.9	8.5	8.8	9.3	9.2
92-99	8.5	8.6	7.7	7.5	8.6	8.4
Permanent Tape - White						
91-02	7.8	8.8	5.1	8.2	7.0	8.5
91-76	9.8	9.3	8.8	9.1	9.8	9.8
92-01	9.7	8.8	9.1	8.8	9.2	9.0
92-03	9.1	8.6	9.3	8.3	9.3	8.8
92-16	7.7	9.2	5.3	9.2	6.1	9.3
92-32	10.0	9.7	9.0	9.7	9.8	9.5
92-86	9.0	9.3	8.2	8.7	9.3	9.3
Permanent Tape - Yellow						
91-01	9.2	8.7	7.2	7.3	9.3	8.2
92-02	8.8	8.5	9.2	9.0	8.8	9.2
92-85	9.0	9.2	8.1	8.9	9.3	9.3
Temporary Tape - White						
92-92	7.0	7.8	5.6	7.6	7.8	7.7

TABLE A4. Appearance Data for Long Life Striping Materials (RTF 92)(Alabama)

SAMPLE NUMBER	SUBJECTIVE RATING					
	September 93 ASPHALT	PCC	December 93 ASPHALT	PCC	April 94 ASPHALT	PCC
Temporary Tape - Yellow						
92-90	7.3	7.2	6.3	7.0	7.7	7.0

* Product overlooked on asphalt test deck